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TOTAL FACTOR PRODUCTIVITY INDEX

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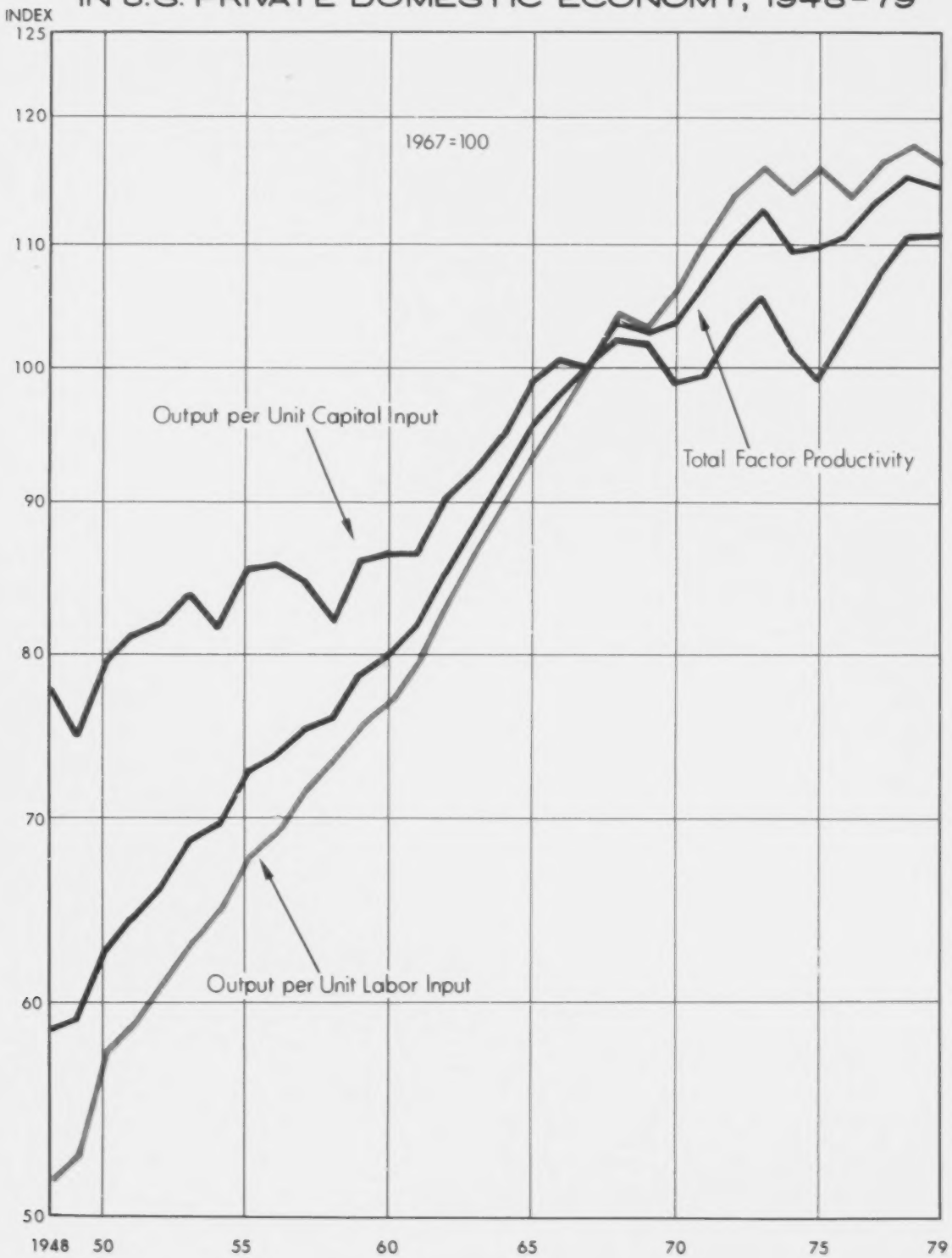
CAPITAL, LABOR, AND TOTAL FACTOR PRODUCTIVITY IN U.S. PRIVATE DOMESTIC ECONOMY, 1948–79



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TOTAL FACTOR PRODUCTIVITY INDEX

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PREFACE

Productivity measures based solely on labor input, which were accepted in the past as valid, are becoming of less use in many industries, especially those which are capital intensive. In fact, labor productivity measures may be actually misleading in some instances, since a significant growth in the index of labor productivity may give a sense of false security and not reflect the true problems stemming from increasingly expensive and, perhaps, increasingly less effective inputs of capital.

The resultant urgent need for improved multiple-input or "total" productivity measures has been emphasized in recently completed reports and recommendations for action by the Joint Economic Committee of the Congress; by the General Accounting office; and by an interagency Committee under the auspices of the National Academy of Science with the Chairmanship of Dr. Albert Rees.

Hence, in view of my fundamental belief in the importance of total productivity measurement, the American Productivity Center is now inaugurating the regular quarterly production of indexes of "total factor" productivity for the private domestic business economy and for major segments and industries based on the approach pioneered by John Kendrick. While not a true "total" productivity series, the total-factor indexes represent a significant step in the proper direction.

The "total factor" indexes match the weighted inputs of capital and labor for each industry or segment of the economy against its deflated "value added" output, using the Department of Commerce's Gross National Product series. The APC plans the development and current publication — probably within the year — of a companion "total productivity" series, which will include on both sides of the ratio energy, fuels, materials and components.

The data provided in this document represent the first current presentation of these valuable indexes, revised and extended from the Kendrick series by Dr. Elliot Grossman. It provides annual indexes of productivity through calendar 1979 for the major segments of the economy; through calendar 1978 for individual sectors and industries; and quarterly indexes through 1980[I] for the major sectors.

Revised and further up-dated indexes will be published on a quarterly basis covering the private domestic economy, agriculture, manufacturing, non-financial corporations, and non-farm industry, with annual consolidations.

A significant feature of the Center's new series is that it also provides annual trend indexes for the twenty SIC two-digit manufacturing industry groups, in addition to the major sectors of the economy.

To the extent that specific industry interest requires and funding is made available, comparable annual data can be provided for specific three of four-digit SIC categories. The Center will welcome specific coverage proposals from its clients.

I personally commend to you this new service of the American Productivity Center. I am convinced it will prove to be a most useful tool for industrial managers, as well as for those in the Government, Research Institutes and academia who have an interest in productivity data and concepts. I am confident future refinements of the Center's indexes will meet, at least in part, urgent current requirements for "total" productivity measures; for more specific quantitative data on capital/labor/energy/materials tradeoffs; and also a meaningful indication of the impact of fluctuations in plant utilization on short-term productivity gains and losses.

C. Jackson Grayson, Jr.
Chairman
American Productivity Center

REFERENCES

Comparable historical data for these total factor productivity indexes are presented in several books authored by Dr. Kendrick, covering periods extending back to 1889. The following titles are included in the Kendrick historical series:

1. "Productivity in the United States: Trends and Cycles", with Elliott Grossman. This book includes data through calendar 1976. Johns Hopkins University Press, May 1980;

2. "Post-War Productivity Trends in the U.S.," with data through calendar 1969. National Bureau of Economic Research, New York, NY, 1973;

3. "Productivity Trends in the United States," with data through 1958. National Bureau of Economic Research, New York, NY, 1961; and

4. "Understanding Productivity," a general-audience paperbound book on productivity and its significance for economic growth, wages, prices and employment, with data through 1973. Johns Hopkins University Press, Baltimore, MD, 1977.

Users of the Center's new total factor productivity indexes may wish to obtain the Johns Hopkins University text (1. above), which presents a wealth of detailed supporting material and analytical text.

RECENT TRENDS IN PRODUCTIVITY

Elliot S. Grossman, Ph.D.
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The American Productivity Center is now publishing current estimates of Total Factor Productivity by major sector and industries. Total Factor Productivity (TFP) measures the gain in efficiency by which our economy is able to produce goods and services.[1] Simply stated, TFP is the ratio of real (price adjusted) output to total tangible factors of production: labor and capital (capital includes plant, equipment, land and inventories). When output grows faster than labor and capital inputs, output is being produced more efficiently — thus there is a rise in productivity.

Productivity growth is intimately tied to rises in real income, as an offset to inflationary pressures, and to profit margins. Only through gains in productivity can labor earn higher wages which do not lead to higher costs, thus enabling growth in real per capita income, resulting in a rise in the standard of living. Productivity is also an important factor in the business cycle. During periods of decline in productivity growth, profit margins are squeezed. This squeeze in margins is a signal to business to restrict its activities, especially investment in new capital, thereby further depressing business activity. As the economy begins to revive, productivity accelerates, profit margins are enhanced, cost pressures are reduced, and further growth is encouraged.

Productivity is one of two major factors determining the long-term growth of potential output: Growth in potential output depends on the rate of productivity gains and on the growth rate of the working population.

The method[2] used by the Center to measure TFP is to take real output and real gross capital in 1972 prices, and labor input as hours worked. Output, labor and capital inputs are then converted to a 1967 (= 100) base. Total Factor Productivity is then defined as the ratio of real output to weighted labor and capital inputs. The weights used are the shares of gross income originating. For example, the 1978 weights for the private domestic business economy are 67.6% for labor and 32.4% for capital.

Current Trends

Over the postwar period real output of the private domestic business economy grew at an average compound annual rate of 3.6% (1948 to 1978). Over this same period total (weighted) factor input rose at a 1.3% rate, indicating that total factor productivity — gains in efficiency — rose at an average rate of 2.3%. However, this gain in efficiency in producing our economy's goods and services did not grow at a steady pace. From 1948 to 1965 TFP rose at a 3.0% rate, then between 1965 and 1973 TFP growth declined to 2.1%. Since the onset of the energy crisis in 1973 and the severe 1974-75 recession, TFP growth dropped even further to a very weak 0.2% rate (1973-78). Finally, between 1978 and 1979, productivity actually declined by 0.9 percent.

Many factors have contributed to the slowdown in productivity[3] and no one factor is the sole cause. One major contributing factor has been the growth in labor relative to capital. During the 1948-65 period, labor input grew at a 0.3% rate, increased to 1.1% over 1965-73, and then jumped to a 1.6% rate. At the same time, the rate of growth in capital input actually *rose* from the 1948-65 period to the 1965-73 period, (from 2.3% to 3.0%), but slowed down to a 1.3% rate between 1973 and 1978. Thus we see that factors other than declines in the growth of the Nation's capital stock are responsible for the 1965-73 slowdown in TFP. In contrast, it is the deceleration in capital that has been a major factor in the 1973-78 slowdown of total factor productivity.

Examination of the capital-labor ratio, which indicates the rate of substitution of capital for labor in the production process, tells a similar story. Over the 1948-65 and 1965-73 periods, the capital-labor ratio grew at essentially the same rate, 2.1% and 1.9%, respectively. However, over the 1973-78 period this ratio actually declined at a

0.2% rate, implying that businesses are depending more heavily on labor than capital to meet increases in output, at least relatively so. And, between 1978-79 the capital-labor ratio continued to decline (at a 1.5% rate). One possible contributing factor to the slowdown by which capital is being substituted for labor could be that wages are not rising as fast relative to the cost of real capital (due to increases in the price of capital and interest rates) as in the past. A second likely factor is that the enormous rise in energy costs since 1973 has rendered the use of capital relatively more expensive to operate than labor.

Output per unit labor and output per unit capital are the two partial productivity ratios of total factor productivity. However, neither ratio is a true measure of the gains in efficiency attributable to labor or capital because of the impact of substitution of one input for another. Commonly known as labor productivity, the ratio of output to labor hours is regularly published by the U.S. Department of Labor, Bureau of Labor Statistics. Generally, the rates of growth of labor productivity are higher than those of TFP, but follow the same pattern of deceleration: 3.6% during the 1948-65 period, to 2.7% (1965-73), to only 0.1% (1973-78). Interestingly, labor productivity in 1979 (over 1978) had a steeper decline than TFP, 1.4% versus 0.9%, mainly due to the unusually large jump in labor hours (3.9%).

Output per unit capital does not exhibit as severe a slowdown in its growth rates. Over the 1948-65 period output per unit capital rose at a 1.4% rate. Then, over the two succeeding sub-periods (1965-73 and 1973-78), the output-capital ratio rose at about the same rate (0.8% and 0.9%, respectively), even though the increases in capital input slowed considerably over these two sub-periods (2.9% in 1965-73 and 1.8% in 1973-78).

All four major sectors have shared in the deceleration of TFP. Productivity in the farming sector grew at a 3.7% rate between 1948 and 1965, 2.3% over 1965-73, and 1.6% over 1973-78, one-half the rate during the earliest period. The non-farm non-manufacturing sector experienced the steepest decline in its productivity growth rates of all three major sectors, dropping from 2.6% (1948-65), to 1.8% (1965-73), and to just 0.1% over the most recent sub-period. Manufacturing TFP exhibits a similar pattern of declining growth: 2.5% between 1948 and 1965; 1.8% (1965-73); and 1.0% (1973-78). However, the decline of TFP for the private domestic business economy in 1979 is solely due to a 2.9% drop in TFP of the non-farm non-manufacturing sector. Both farming and manufacturing sectors maintained increases in TFP during 1979, 1.9% and 1.4%, respectively.

INDUSTRY ESTIMATES

Among individual industries, growth rates in productivity over the 1948-78 postwar period range from a low of −0.1% for the primary metals industry to a high of 4.7% for the communications industry. In addition to communications, some of the other industries exhibiting higher productivity gains include electrical machinery (3.5%), public utilities (3.2%) and textiles (3.2%). The finance and insurance, and construction industries also exhibited neglible gains in TFP (0.1% and 0.7%, respectively).

Most industries exhibited declines in their growth of TFP over the last fifteen years. Some of the more dramatic declines were exhibited by the lumber industry, dropping from 4.8% over 1948-65, to only 0.8% over 1965-73 to falling at a 0.1% rate over 1973-78; and the construction industry, dropping from 2.7% (1948-65), to actual declines in productivity of 2.0% (1965-73) and 1.3% (1973-78).

Not all industries experienced slowdowns in their TFP growth rates. Some industries even experienced an acceleration in TFP since 1965. For example, TFP in the apparel industry accelerated from a 2.0% (1948-65), to 3.2% (1965-73) and 3.5% (1973-78). Another case in point is the miscellaneous manufactures industry, which experienced a growth in its TFP from 2.1% in the earlier 1948-65 period to 3.0% (1965-73) and 3.6% (1973-78).

The two industries with the largest postwar gains in productivity, communications and electrical machinery, illustrate that growth in TFP results

not only from the substitution of capital for labor, but from other sources as well. Whereas the capital-labor ratio of the communications industry grew at a 4.7% rate (1948-78), the capital-labor ratio for the electrical industry grew only at a 1.7% rate over the same period.

SUMMARY

The deceleration in the growth of total factor productivity has both contributed to and is a result of the current stagflation. A rising productivity growth rate would lower inflationary pressures and encourage economic growth, thereby leading to gains in employment and the competitive position of American products in world markets. While the slowdown in TFP is not exhibited by all industries, it is sufficiently broad-based that incentives to encourage an acceleration in productivity are one of the major foundations of any anti-inflationary economic policy.

In the recent study by Kendrick and Grossman[4], there are several examples of how the sector and industry estimates of total factor productivity may be analyzed. For example, productivity estimates may be used to examine to what degree total factor productivity has been an offset to prices, and labor and capital productivity ratios have been offsets to increases in labor and capital costs. Another use of productivity estimates is to examine the timing — leads and lags — between productivity, prices, profit margins and output over the business cycle. Finally, comparisons of differentials in TFP growth rates among industries aid in explaining the causes of productivity.

The American Productivity Center plans to continue publishing estimates of the major sectors on a quarterly basis, and the industries on an annual basis. At some later time, quarterly industry estimates may be made available.

FOOTNOTES

[1] For further background, analysis and estimates of TFP through 1976, see J. W. Kendrick and E. S. Grossman, *Productivity in the United States: Trends and Cycles*, The Johns Hopkins University Press, (Baltimore, MD), 1980.

[2] See Kendrick and Grossman, *Ibid.*

[3] See Kendrick and Grossman, *Ibid.*; see also by Kendrick, "Productivity Trends and the Recent Slowdown: Historical Perspective, Causal Factors, and Policy Options," in *Contemporary Economic Problems 1979*, W. Fellner, ed., The American Enterprise Institute for Public Policy Research, (Washington, D.C.), 1979.

[4] Kendrick and Grossman, *Ibid.*

Table I
Total Factor Productivity
By Major Segment of the Economy
(Selected Periods, 1948 - 79)

	Average Annual Rates of Change				
	1948-78	1948-65	1965-73	1973-78	1978-79
1. Total factor productivity					
Private Domestic Business Economy	2.3%	3.0%	2.1%	0.2%	−0.9%
Farming	3.0	3.7	2.3	1.6	1.9
Manufacturing Industry	2.0	2.5	1.8	1.0	1.4
Nonfarm, Nonmanufacturing Industry	2.0	2.6	1.8	0.1	−2.9
Nonfinancial Corporate Business	2.0	2.6	1.3	0.7	0.1
2. Labor productivity (Output per hour worked)					
Private Domestic Business Economy	2.7%	3.6%	2.7%	0.1%	−1.4%
Farming	4.9	5.4	5.2	2.8	4.5
Manufacturing Industry	2.6	3.0	2.5	1.7	1.9
Nonfarm, Nonmanufacturing Industry	2.3	3.1	2.4	−0.6	−3.9
Nonfinancial Corporate Business	2.5	3.2	1.9	0.9	−0.3
3. Capital productivity (Output per unit of capital input)					
Private Domestic Business Economy	1.2%	1.4%	0.8%	0.9%	0.1%
Farming	-0-	−3.0	0.2	0.7	0.2
Manufacturing Industry	0.5	1.0	0.2	−0.7	0.4
Nonfarm, Nonmanufacturing Industry	1.3	1.5	0.8	1.4	−1.1
Nonfinancial Corporate Business	0.5	0.8	−0.2	0.3	0.9

Table II
Outputs, Inputs and Capital—Labor Ratio By Major Segment of the Economy (Selected Periods, 1948 - 79)

	Average Annual Rates of Change				
	1948-79	1948-65	1965-73	1973-78	1978-79
1. Output (Real product, in 1972 dollars)					
Private Domestic Business Economy	3.6%	3.8%	3.8%	1.7%	2.5%
Farming	1.0	0.9	1.1	1.4	2.0
Manufacturing Industry	3.5	4.0	3.6	1.8	3.6
Nonfarm, Nonmanufacturing Industry	3.9	4.0	4.1	3.2	1.1
Nonfinancial Corporate Business	4.3	4.6	4.8	2.6	3.1
2. Labor Input (Hours worked)					
Private Domestic Business Economy	0.8%	0.3%	1.1%	1.6%	3.9%
Farming	−3.7	−4.2	−3.9	−1.4	−2.3
Manufacturing Industry	0.9	1.0	1.2	0.1	1.8
Nonfarm, Nonmanufacturing Industry	1.6	0.9	1.6	3.9	5.3
Nonfinancial Corporate Business	1.8	1.4	2.8	1.7	3.5

Table II (Cont'd)
Outputs, Inputs and Capital—Labor Ratio
By Major Segment of the Economy
(Selected Periods, 1948 - 79)

	Average Annual Rates of Change				
	1948-79	1948-65	1965-73	1973-78	1978-79
3. Capital input					
Private Domestic Business Economy	2.4%	2.3%	3.0%	1.3%	2.3%
Farming	1.0	1.2	0.8	0.7	1.8
Manufacturing Industry	3.0	2.9	3.5	2.4	3.3
Nonfarm, Nonmanufacturing Industry	2.6	2.5	3.2	1.9	2.2
Nonfinancial Corporate Business	3.8	3.7	5.0	2.3	2.1
4. Capital—labor ratio					
Private Domestic Business Economy	1.6%	2.1%	1.9%	−0.2%	−1.5%
Farming	4.9	5.7	4.9	2.1	4.3
Manufacturing Industry	2.1	1.9	2.3	2.4	1.5
Nonfarm, Nonmanufacturing Industry	1.0	1.6	1.6	−1.9	−2.9
Nonfinancial Corporate Business	2.0	2.3	2.1	0.6	−1.3

Table III
Total Factor Productivity
By Major Industries of the Economy
(Selected Periods, 1948 - 78)

	Average Annual Rates of Change			
	1948-78	1948-65	1965-73	1973-78
Private Domestic Business Economy	2.3%	3.0%	2.1%	0.2%
Farming	3.0	3.7	2.3	1.6
Manufacturing	2.0	2.5	1.8	1.0
Food	2.8	2.7	2.6	3.2
Tobacco	2.3	2.4	3.2	0.7
Textiles	3.2	3.7	2.3	3.1
Apparel	2.6	2.0	3.2	3.5
Lumber	2.9	4.8	0.8	−0.1
Furniture	1.8	2.2	1.3	1.1
Paper	2.1	2.1	3.9	−1.0
Printing & Publishing	1.6	2.5	0.6	0.2
Chemicals	2.9	3.5	3.6	−0.2
Petroleum	2.3	3.0	1.3	1.5
Rubber	1.7	2.2	1.8	−0.1
Leather	1.2	0.9	1.8	1.0
Stone, Clay & Glass	1.4	1.9	0.6	1.2
Primary Metals	−0.1	0.7	0.4	−3.4
Fabricated Metals	1.1	1.5	0.9	0.1
Machinery, exc. Electrical	1.0	1.3	1.1	−0.4
Electrical Machinery	3.5	4.3	3.1	1.8
Transportation Equipment	2.7	3.3	1.4	2.8
Instruments	2.4	3.4	2.0	−0.1
Miscellaneous Manufactures	2.6	2.1	3.0	3.6
Nonfarm Nonmanufacturing	2.0	2.6	1.8	0.1
Mining	1.8	3.4	1.0	−2.1
Construction	0.7	2.7	−2.0	−1.3
Transportation	2.6	2.8	3.0	1.3
Railroad	2.8	4.1	2.1	−0.1
Nonrail	2.0	1.6	3.1	1.5
Communications	4.7	5.2	3.4	5.1
Public Utilities	3.2	5.2	1.7	−1.1
Trade	2.1	2.2	2.9	0.6
Finance & Insurance	0.1	0.6	−0.7	−0.2
Real Estate	2.6	3.6	1.1	1.5
Services	1.6	1.5	2.4	0.8
Nonfinancial Corporate Business	2.0	2.6	1.3	0.7

TABLE IV. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

1. Private Domestic Business Economy

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

	Output and Inputs				Productivity Ratios			
Year	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	49.1	94.9	63.2	84.8	57.9	51.7	77.7	66.6
1949	48.2	91.4	64.4	82.8	58.2	52.7	74.9	70.5
1950	52.8	92.4	66.7	84.2	62.7	57.1	79.1	72.2
1951	56.0	94.9	69.1	86.7	64.6	59.0	81.0	72.9
1952	57.8	94.7	70.7	87.1	66.4	61.0	81.8	74.6
1953	60.4	95.3	72.0	87.9	68.7	63.3	83.9	75.5
1954	59.6	91.8	73.2	85.8	69.5	65.0	81.4	79.8
1955	64.5	95.1	75.5	88.8	72.6	67.8	85.5	79.4
1956	66.5	96.1	77.7	90.2	73.7	69.2	85.6	80.8
1957	67.6	94.6	79.7	89.8	75.2	71.5	84.7	84.3
1958	66.4	90.5	81.1	87.4	76.0	73.4	81.9	89.6
1959	71.3	94.4	82.7	90.6	78.7	75.6	86.2	87.6
1960	72.7	94.3	84.1	91.0	79.9	77.1	86.5	89.2
1961	74.0	92.9	85.5	90.5	81.7	79.6	86.5	92.0
1962	78.6	94.5	87.3	92.1	85.3	83.2	90.1	92.4
1963	82.1	94.8	89.1	92.9	88.4	86.7	92.1	94.1
1964	86.7	96.0	91.3	94.5	91.7	90.3	94.9	95.1
1965	92.7	99.1	93.8	97.4	95.3	93.6	98.8	94.7
1966	97.9	101.1	97.2	99.8	98.0	96.8	100.7	96.1
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	105.2	100.6	103.0	101.4	103.7	104.5	102.1	102.4
1969	108.5	105.3	106.5	105.7	102.7	103.1	101.9	101.2
1970	107.9	101.7	109.2	104.1	103.6	106.1	98.7	107.4
1971	110.9	100.6	111.9	104.3	106.4	110.2	99.1	111.2
1972	118.2	104.0	114.8	107.5	109.9	113.6	102.9	110.4
1973	125.1	108.0	118.4	111.3	112.4	115.9	105.7	109.7
1974	122.7	107.8	121.1	112.1	109.5	113.9	101.3	112.4
1975	120.7	104.1	122.1	109.9	109.8	115.9	98.8	117.3
1976	128.3	112.7	124.2	116.4	110.2	113.8	103.3	110.2
1977	136.0	116.8	126.6	120.0	113.4	116.4	107.4	108.4
1978	143.1	121.6	129.6	124.2	115.3	117.7	110.5	106.6
1979	146.7	126.3	132.6	128.3	114.3	116.1	110.6	105.0

TABLE IV. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

2. Nonfinancial Corporate Business

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

	Output and Inputs				Productivity Ratios			
Year	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	42.1	73.9	45.9	65.7	64.1	57.0	91.7	62.1
1949	40.3	69.5	46.8	62.9	64.1	58.0	86.0	67.4
1950	45.3	72.8	48.7	65.8	68.9	62.2	93.0	66.9
1951	49.5	77.5	51.1	69.8	70.9	63.9	96.8	66.0
1952	50.4	78.5	52.9	71.0	70.9	64.2	95.3	67.4
1953	53.5	80.7	54.7	73.1	73.2	66.3	97.8	67.8
1954	51.9	76.3	56.0	70.4	73.7	68.0	92.8	73.3
1955	57.8	80.0	58.2	73.7	78.4	72.3	99.3	72.8
1956	59.3	81.8	60.7	75.7	78.3	72.5	97.7	74.2
1957	60.1	80.9	62.6	75.6	79.5	74.3	95.9	77.4
1958	57.4	76.2	63.6	72.6	79.0	75.3	90.3	83.5
1959	63.6	81.0	65.3	76.5	83.1	78.5	97.3	80.7
1960	65.8	82.0	67.2	77.8	84.6	80.2	97.9	82.0
1961	67.2	81.2	68.8	77.7	86.5	82.8	97.7	84.7
1962	73.2	84.4	72.6	81.0	90.3	86.7	100.8	86.1
1963	78.0	86.3	76.1	83.4	93.6	90.4	102.5	88.1
1964	83.4	89.0	80.2	86.5	96.4	93.7	104.0	90.1
1965	90.6	93.6	85.7	91.3	99.2	96.8	105.7	91.5
1966	97.7	98.8	93.9	97.4	100.3	98.9	104.1	95.0
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	106.6	103.2	105.3	103.7	102.8	103.3	101.2	102.1
1969	111.3	107.4	110.8	108.3	102.8	103.6	100.5	103.1
1970	110.1	106.3	114.4	108.4	101.6	103.6	96.3	107.6
1971	113.5	106.0	117.6	109.0	104.1	107.1	96.5	110.9
1972	122.9	111.3	122.1	114.1	107.7	110.4	100.7	109.7
1973	132.0	117.0	126.7	119.5	110.4	112.8	104.2	108.3
1974	127.3	117.4	128.3	120.2	105.9	108.4	99.2	109.3
1975	124.6	111.4	127.4	115.6	107.8	111.8	97.8	114.3
1976	133.8	115.9	130.9	119.8	111.7	115.4	102.2	112.9
1977	141.2	120.9	136.8	125.1	112.9	116.8	103.2	113.1
1978	150.0	127.0	141.8	130.9	114.6	118.1	105.8	111.6
1979	154.7	131.4	144.8	134.9	114.7	117.7	106.8	110.2

TABLE IV. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

3. Farming

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	87.1	238.6	80.3	172.0	50.7	36.5	108.5	33.7
1949	85.4	236.6	80.8	171.0	49.9	36.1	105.7	34.2
1950	90.4	218.9	83.1	161.9	55.8	41.3	108.7	38.0
1951	86.0	207.4	84.6	156.0	55.1	41.5	101.7	40.8
1952	87.8	197.2	86.0	150.8	58.2	44.5	102.0	43.6
1953	92.4	182.5	86.7	142.7	64.7	50.6	106.6	47.5
1954	94.6	177.3	87.5	140.1	67.6	53.4	108.2	49.4
1955	97.7	180.3	90.0	142.9	68.3	54.2	108.5	50.0
1956	96.3	171.7	90.6	138.2	69.7	56.1	106.3	52.8
1957	93.5	157.9	91.8	130.9	71.4	59.2	101.8	58.2
1958	97.9	146.4	92.6	124.7	78.6	66.9	105.8	63.3
1959	94.2	146.6	94.4	125.5	75.0	64.3	99.8	64.4
1960	98.8	141.4	95.3	122.8	80.5	69.9	103.7	67.4
1961	99.5	133.8	95.4	118.3	84.1	74.4	104.4	71.3
1962	99.2	129.7	96.1	116.2	85.4	76.4	103.2	74.1
1963	101.2	124.3	96.9	113.3	89.4	81.5	104.4	78.0
1964	98.7	117.5	97.9	109.6	90.1	84.0	100.9	83.3
1965	101.7	114.5	98.6	108.1	94.0	88.8	103.1	86.1
1966	95.9	103.7	99.1	101.9	94.2	92.5	96.8	95.6
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	99.3	97.8	100.7	104.0	95.4	101.5	98.6	103.0
1969	101.3	93.1	101.3	101.3	99.9	108.8	99.9	108.9
1970	105.6	86.7	102.3	98.6	107.1	121.7	103.2	118.0
1971	112.2	84.2	103.3	97.8	114.7	133.2	108.6	122.7
1972	109.4	85.1	103.8	98.5	111.0	128.5	105.4	121.9
1973	110.8	83.3	105.5	98.5	112.4	133.0	105.0	126.7
1974	110.4	83.4	106.3	99.0	111.5	132.4	103.8	127.5
1975	116.0	81.0	107.5	98.3	118.0	143.3	108.0	132.7
1976	111.4	77.3	107.7	96.6	115.3	144.1	103.4	139.4
1977	119.2	76.4	107.9	96.3	123.8	155.9	110.5	141.2
1978	118.7	77.7	109.2	97.6	121.6	152.7	108.7	140.5
1979	121.1	75.9	111.2	97.7	123.9	159.6	108.9	146.5

TABLE IV. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

4. Manufacturing Industry

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	47.8	80.1	54.6	72.9	65.7	59.7	87.6	68.2
1949	45.3	72.8	55.4	67.9	66.7	62.2	81.7	76.1
1950	51.7	79.1	57.5	72.9	70.8	65.4	89.9	72.7
1951	57.5	85.2	62.0	78.6	73.1	67.4	92.6	72.8
1952	59.3	86.5	64.5	80.3	73.9	68.6	91.9	74.6
1953	63.5	90.8	66.7	84.0	75.6	69.9	95.1	73.5
1954	58.9	82.7	67.7	78.5	75.0	71.2	87.0	81.8
1955	65.3	87.7	70.4	82.9	78.8	74.4	92.7	80.2
1956	65.7	88.9	73.8	84.7	77.6	73.9	89.0	83.0
1957	66.1	87.3	75.8	84.1	78.5	75.7	87.2	86.8
1958	60.3	79.9	76.3	79.0	76.4	75.5	79.1	95.5
1959	67.2	85.7	77.7	83.6	80.4	78.4	86.5	90.7
1960	67.7	85.2	78.9	83.5	81.1	79.5	85.7	92.7
1961	67.4	83.1	80.2	82.3	81.9	81.1	84.1	96.5
1962	73.3	86.8	82.1	85.6	85.7	84.4	89.3	94.5
1963	79.1	87.6	83.8	86.6	91.4	90.3	94.5	95.6
1964	84.9	89.3	86.1	88.4	96.0	95.1	98.6	96.4
1965	92.6	94.5	89.5	93.2	99.3	97.9	103.5	94.6
1966	100.0	100.7	95.0	99.2	100.8	99.3	105.2	94.3
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	105.6	101.7	103.8	102.7	102.9	103.9	101.8	102.1
1969	108.7	103.6	107.9	105.2	103.3	104.9	100.8	104.1
1970	102.6	97.5	110.5	101.3	101.2	105.2	92.8	113.3
1971	104.0	93.8	111.6	98.8	105.3	110.9	93.2	118.9
1972	113.7	98.1	113.7	102.5	110.9	115.9	100.0	116.0
1973	123.2	103.6	117.6	107.7	114.4	118.9	104.8	113.4
1974	114.9	101.6	121.7	107.2	107.2	113.1	94.4	119.8
1975	109.1	91.5	121.9	99.7	109.4	119.2	89.5	133.2
1976	119.5	96.5	124.7	104.1	114.8	123.9	95.8	129.3
1977	128.2	100.4	128.5	108.0	118.7	127.8	99.8	128.1
1978	134.5	104.1	132.7	111.9	120.1	129.1	101.3	127.4
1979	139.4	106.0	137.1	114.4	121.8	131.5	101.7	129.3

TABLE IV. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

5. Nonfarm, Nonmanufacturing Industry

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	47.6	85.7	61.9	77.9	61.0	55.5	76.8	72.3
1949	47.5	84.3	63.4	77.4	61.3	56.3	74.9	75.2
1950	51.2	84.5	65.8	78.3	65.4	60.6	77.8	77.8
1951	53.6	86.6	67.8	80.3	66.7	61.9	79.0	78.3
1952	55.4	86.8	69.1	80.9	68.4	63.8	80.1	79.6
1953	57.1	87.2	70.3	81.5	70.1	65.5	81.2	80.7
1954	58.0	86.5	71.7	81.5	71.2	67.1	80.9	83.0
1955	62.3	88.8	73.8	83.7	74.4	70.1	84.4	83.1
1956	65.2	91.0	76.0	85.9	75.9	71.7	85.8	83.5
1957	66.8	91.0	78.2	86.6	77.1	73.4	85.3	86.0
1958	67.5	89.7	79.9	86.3	78.3	75.2	84.4	89.1
1959	72.0	93.0	81.6	89.0	80.8	77.4	88.2	87.7
1960	73.6	93.9	83.2	90.1	81.7	78.4	88.5	88.6
1961	75.6	93.6	84.8	90.5	83.5	80.8	89.2	90.6
1962	80.0	94.6	86.9	91.9	87.1	84.6	92.1	91.9
1963	82.5	95.3	89.0	93.1	88.6	86.6	92.7	93.4
1964	86.9	97.3	91.4	95.3	91.2	89.3	95.1	93.9
1965	92.3	99.8	94.0	97.8	94.5	92.5	98.2	94.2
1966	97.0	101.0	97.3	99.7	97.2	96.0	99.6	96.4
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	105.3	100.3	103.2	101.4	103.8	105.0	102.0	102.9
1969	108.8	107.7	107.2	107.6	101.1	101.0	101.5	99.5
1970	110.5	106.0	110.4	107.6	102.7	104.3	100.1	104.1
1971	114.2	106.7	113.8	109.2	104.5	107.0	100.3	106.6
1972	120.9	109.9	117.5	112.6	107.3	110.0	102.8	107.0
1973	126.9	113.6	121.4	116.4	109.0	111.7	104.5	106.9
1974	127.2	114.4	124.1	117.9	107.9	111.2	102.5	108.5
1975	126.6	114.5	125.3	118.3	107.0	110.6	101.0	109.5
1976	133.5	126.7	127.6	127.1	105.0	105.4	104.6	100.7
1977	140.8	131.5	130.1	131.1	107.4	107.0	108.2	98.9
1978	148.8	137.3	133.1	135.9	109.4	108.3	111.8	96.9
1979	150.4	144.6	136.0	141.6	106.2	104.1	110.6	94.1

TABLE V. MAJOR NONFARM, NONMANUFACTURING INDUSTRIES

1. Mining

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	67.9	150.8	96.8	127.6	53.2	45.0	70.2	64.2
1949	59.7	130.4	95.5	115.3	51.8	45.8	62.6	73.2
1950	66.9	131.9	99.8	118.0	56.7	50.7	67.0	75.7
1951	73.2	137.4	99.7	121.2	60.4	53.2	73.4	72.6
1952	72.3	133.5	98.1	118.2	61.1	54.1	73.7	73.5
1953	73.9	129.7	89.6	112.4	65.8	57.0	82.6	69.0
1954	71.7	118.6	90.6	106.5	67.3	60.4	79.1	76.4
1955	79.8	125.0	96.3	112.6	70.9	63.8	82.9	77.0
1956	84.1	130.1	95.5	115.2	73.1	64.7	88.1	73.4
1957	83.9	128.9	99.5	116.2	72.2	65.1	84.4	77.1
1958	77.3	114.0	102.3	108.9	71.0	67.8	75.5	89.8
1959	80.8	116.0	108.2	112.6	71.8	69.6	74.7	93.3
1960	82.0	112.8	111.2	112.1	73.1	72.7	73.7	98.6
1961	82.4	107.2	117.1	111.6	73.9	76.9	70.4	109.2
1962	84.8	104.8	117.8	110.5	76.7	80.9	72.0	112.4
1963	88.5	102.3	104.2	103.1	85.8	86.5	85.0	101.8
1964	90.8	103.4	102.6	103.1	88.1	87.8	88.5	99.2
1965	93.7	103.1	96.7	100.3	93.4	90.9	96.9	93.8
1966	98.2	102.7	102.5	102.6	95.7	95.6	95.9	99.8
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	103.4	98.3	102.8	99.4	104.0	105.2	100.5	104.6
1969	106.5	101.0	111.9	104.9	101.5	105.4	95.1	110.8
1970	108.9	100.3	111.8	104.5	104.2	108.5	97.4	111.4
1971	106.1	97.6	112.5	103.2	102.8	108.7	94.3	115.3
1972	108.1	100.4	114.0	105.4	102.5	107.6	94.8	113.5
1973	109.5	103.7	116.1	108.2	101.2	105.6	94.4	111.9
1974	108.7	111.5	117.1	113.2	96.0	97.4	92.8	105.0
1975	108.3	119.1	118.0	118.1	91.7	90.9	91.7	99.1
1976	109.8	126.7	119.1	122.9	89.3	86.7	92.2	94.0
1977	113.4	133.4	120.9	127.6	88.8	85.0	93.8	90.6
1978	118.8	138.1	122.1	130.9	90.8	86.0	97.3	88.4

TABLE V. MAJOR NONFARM, NONMANUFACTURING INDUSTRIES

2. Contract Construction

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	44.6	76.4	31.1	73.5	60.7	58.4	143.6	40.7
1949	44.6	75.6	32.8	73.0	61.1	59.0	136.0	43.3
1950	49.2	78.9	36.7	76.3	64.4	62.3	134.0	46.5
1951	54.6	86.5	41.6	83.8	65.2	63.2	131.3	48.1
1952	56.9	88.4	44.7	85.8	66.3	64.4	127.2	50.6
1953	58.6	86.4	45.8	84.0	69.7	67.8	127.9	53.0
1954	60.4	84.9	47.3	82.7	73.1	71.2	127.8	55.7
1955	64.2	89.6	48.7	87.2	73.6	71.6	131.7	54.3
1956	68.7	95.6	51.8	93.1	73.8	71.9	132.6	54.2
1957	68.8	93.0	55.9	90.9	75.7	74.0	123.1	60.1
1958	70.9	89.4	58.8	87.8	80.8	79.3	120.6	65.7
1959	76.5	94.7	62.6	93.0	82.2	80.8	122.1	66.1
1960	77.5	92.5	65.9	91.1	85.0	83.7	117.5	71.2
1961	78.3	91.4	70.3	90.2	86.8	85.7	111.4	77.0
1962	81.2	93.2	74.9	92.2	88.0	87.1	108.3	80.4
1963	83.7	95.8	80.8	95.0	88.1	87.4	103.6	84.4
1964	90.2	98.4	85.7	97.8	92.3	91.7	105.3	87.1
1965	95.8	101.4	91.0	100.9	94.9	94.4	105.2	89.7
1966	99.2	104.1	95.1	103.7	95.7	95.2	104.3	91.3
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	105.1	98.9	103.5	99.7	105.4	106.3	101.5	104.7
1969	102.9	107.7	109.9	108.5	94.8	95.5	93.6	102.0
1970	96.0	105.8	113.7	107.0	89.7	90.7	84.4	107.5
1971	96.1	109.1	117.3	110.3	87.0	88.0	81.9	107.5
1972	97.5	114.0	122.5	115.2	84.6	85.5	79.6	107.5
1973	98.1	120.2	125.4	121.2	80.9	81.6	78.2	104.3
1974	94.1	119.5	126.3	120.7	78.0	78.8	74.5	105.7
1975	83.8	106.2	123.4	108.1	77.5	78.9	67.9	116.2
1976	90.4	110.6	121.3	112.0	80.7	81.8	74.6	109.7
1977	95.2	117.9	119.3	118.6	80.3	80.7	79.8	101.2
1978	99.6	131.9	117.2	131.4	75.8	75.5	85.0	88.9

TABLE V. MAJOR NONFARM, NONMANUFACTURING INDUSTRIES

3. Total Transportation

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	66.6	127.6	81.3	118.3	56.3	52.2	81.9	63.7
1949	58.5	116.6	83.5	109.9	53.2	50.2	70.1	71.7
1950	64.5	115.5	86.3	109.6	58.9	55.9	74.7	74.8
1951	71.5	120.3	88.9	114.0	62.8	59.5	80.5	73.8
1952	69.4	117.5	90.7	112.1	61.8	59.0	76.5	77.2
1953	69.9	117.0	92.4	112.0	62.4	59.8	75.7	79.0
1954	66.7	109.1	94.4	106.2	62.8	61.1	70.6	86.5
1955	72.6	112.0	96.6	108.9	66.6	64.8	75.1	86.3
1956	76.4	112.9	98.2	110.0	69.4	67.7	77.7	87.0
1957	75.6	110.1	99.5	108.0	70.0	68.7	76.0	90.4
1958	70.5	101.1	100.2	100.9	69.8	69.8	70.4	99.1
1959	74.3	104.0	99.6	103.2	72.1	71.5	74.6	95.8
1960	75.8	102.9	98.2	102.0	74.4	73.7	77.2	95.5
1961	75.1	100.1	97.5	99.6	75.5	75.1	77.0	97.5
1962	78.4	100.5	97.8	100.0	78.5	78.1	80.2	97.3
1963	82.6	100.3	98.2	99.9	82.7	82.3	84.1	97.9
1964	85.5	101.8	98.3	101.2	84.6	84.0	87.0	96.5
1965	93.2	104.9	98.8	103.7	89.9	88.9	94.4	94.1
1966	100.4	107.2	99.5	105.7	94.9	93.6	100.9	92.8
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	106.7	107.4	100.4	106.0	100.7	99.4	106.3	93.5
1969	108.4	109.4	100.9	107.8	100.6	99.1	107.5	92.2
1970	107.6	107.9	101.1	106.5	101.0	99.7	106.5	93.7
1971	106.6	105.4	100.7	104.5	102.0	101.1	105.8	95.6
1972	113.6	107.7	100.7	106.4	106.8	105.4	112.8	93.5
1973	124.3	111.2	100.5	109.1	113.9	111.7	123.7	90.4
1974	124.0	110.1	100.3	108.2	114.6	112.6	123.6	91.1
1975	115.4	103.9	99.7	103.1	111.9	111.1	115.7	96.0
1976	119.4	106.2	99.3	104.9	113.9	112.4	120.3	93.4
1977	125.3	109.7	98.6	107.5	116.6	114.2	127.1	89.9
1978	134.0	113.7	98.0	110.6	121.2	117.9	136.7	86.3

TABLE V. MAJOR NONFARM, NONMANUFACTURING INDUSTRIES

3a. Railroad Transportation

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	96.8	234.9	97.0	204.3	47.4	41.2	99.8	41.3
1949	80.4	200.2	98.1	177.6	45.2	40.1	81.9	49.0
1950	87.4	190.2	99.7	170.2	51.3	46.0	87.7	52.4
1951	98.3	199.1	101.1	177.5	55.4	49.4	97.2	50.8
1952	94.1	190.4	102.3	171.0	55.0	49.4	92.0	53.7
1953	91.6	187.3	103.7	168.9	54.2	48.9	88.4	55.3
1954	82.7	166.2	105.3	152.9	54.1	49.8	78.5	63.4
1955	91.5	169.3	106.6	155.6	58.8	54.1	85.8	63.0
1956	93.7	166.4	107.2	153.5	61.0	56.3	87.3	64.5
1957	88.2	156.7	107.5	146.1	60.4	56.3	82.1	68.6
1958	78.4	133.5	107.6	128.1	61.2	58.7	72.9	80.6
1959	82.1	129.9	107.0	125.1	65.6	63.2	76.7	82.4
1960	81.1	123.8	105.5	120.0	67.6	65.5	76.9	85.2
1961	80.4	115.8	104.1	113.4	70.9	69.4	77.2	89.8
1962	83.4	113.7	103.0	111.5	74.8	73.3	80.9	90.6
1963	87.6	110.9	101.8	109.0	80.3	79.0	86.0	91.9
1964	91.4	110.2	101.2	108.3	84.4	82.9	90.3	91.9
1965	98.7	107.4	100.8	106.0	93.2	92.0	98.0	93.8
1966	105.6	105.6	100.6	104.6	101.0	99.9	105.0	95.2
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	98.3	97.2	99.2	97.0	101.3	101.1	99.0	102.1
1969	100.9	95.1	98.7	95.3	105.9	106.1	102.3	103.8
1970	95.5	92.8	98.0	93.3	102.4	103.0	97.5	105.6
1971	85.7	86.6	97.2	88.4	96.9	98.9	88.2	112.2
1972	86.5	84.5	96.5	86.6	99.9	102.4	89.7	114.2
1973	95.8	85.3	95.7	87.0	110.1	112.4	100.2	112.2
1974	92.0	85.9	95.2	87.4	105.3	107.1	96.7	110.7
1975	80.1	79.5	94.4	82.3	97.4	100.8	84.9	118.7
1976	85.4	78.7	93.6	81.5	104.8	108.5	91.3	118.8
1977	84.6	79.4	92.8	81.8	103.4	106.6	91.2	116.9
1978	88.3	78.2	92.1	80.8	109.3	112.9	95.9	117.7

TABLE V. MAJOR NONFARM, NONMANUFACTURING INDUSTRIES

3b. Nonrail Transportation

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	54.1	88.6	37.2	79.4	68.1	61.1	145.5	42.0
1949	49.5	86.2	42.3	78.3	63.1	57.4	116.8	49.1
1950	55.0	88.3	48.7	81.2	67.7	62.3	113.0	55.1
1951	60.4	91.7	54.3	85.0	71.1	65.9	111.4	59.2
1952	59.1	91.0	58.0	85.1	69.4	64.9	101.9	63.7
1953	60.9	91.4	60.8	85.8	71.0	66.6	100.6	66.3
1954	60.0	88.4	63.5	83.9	71.5	67.9	94.4	71.9
1955	64.7	91.2	68.0	86.9	74.4	71.0	95.2	74.6
1956	69.2	93.4	72.8	89.7	77.1	74.0	95.1	77.9
1957	70.4	93.2	77.0	90.2	78.0	75.5	91.3	82.7
1958	67.2	89.3	79.3	87.4	76.9	75.3	84.8	88.8
1959	71.1	94.6	78.7	91.7	77.6	75.2	90.4	83.2
1960	73.7	95.3	77.8	92.1	80.0	77.3	94.7	81.7
1961	73.0	94.3	79.1	91.5	79.7	77.4	92.3	83.9
1962	76.4	95.7	83.2	93.4	81.8	79.8	91.8	86.9
1963	80.5	96.5	87.8	94.9	84.9	83.5	91.7	91.0
1964	83.1	98.8	90.1	97.2	85.5	84.1	92.3	91.2
1965	91.0	104.0	93.1	102.0	89.2	87.5	97.7	89.5
1966	98.2	107.8	96.4	105.7	92.9	91.1	101.8	89.5
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	110.2	111.1	103.7	109.6	100.6	99.2	106.3	93.3
1969	111.6	114.7	107.1	113.1	98.6	97.3	104.1	93.4
1970	112.6	113.4	109.8	112.6	100.0	99.3	102.5	98.8
1971	115.2	112.2	110.8	111.9	103.0	102.7	104.0	98.7
1972	124.9	116.2	112.7	115.4	108.2	107.5	110.8	97.0
1973	136.1	120.7	114.1	119.3	114.1	112.8	119.3	94.5
1974	137.2	118.8	114.8	118.0	116.3	115.5	119.5	96.6
1975	130.0	112.7	114.7	113.0	115.0	115.3	113.3	101.7
1976	133.5	116.2	115.4	116.0	115.1	114.9	115.8	99.2
1977	142.3	120.8	115.0	119.5	119.0	117.8	123.7	95.2
1978	153.0	126.5	114.8	124.2	123.2	120.9	133.3	90.7

TABLE V. MAJOR NONFARM, NONMANUFACTURING INDUSTRIES

4. Communications

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	28.8	92.3	34.9	72.8	39.6	31.3	82.7	37.8
1949	30.2	89.0	36.3	70.8	42.7	34.0	83.2	40.8
1950	31.7	85.6	37.9	68.9	46.1	37.1	83.8	44.2
1951	35.0	87.4	39.9	70.6	49.6	40.1	87.8	45.6
1952	37.2	89.2	42.7	72.6	51.2	41.6	87.0	47.8
1953	40.6	92.4	45.1	75.4	53.9	44.0	90.1	48.8
1954	41.5	91.0	47.5	75.0	55.4	45.6	87.5	52.2
1955	45.6	91.0	49.7	75.5	60.4	50.1	91.9	54.6
1956	48.4	93.6	53.1	78.2	61.9	51.7	91.2	56.7
1957	51.9	92.9	57.1	78.7	65.9	55.8	90.9	61.4
1958	53.7	87.4	60.0	75.6	71.0	61.4	89.6	68.6
1959	57.8	86.7	62.5	75.7	76.3	66.7	92.4	72.1
1960	61.1	87.6	65.8	77.7	78.7	69.8	92.9	75.1
1961	63.9	86.1	69.5	78.5	81.4	74.3	92.0	80.7
1962	68.7	86.6	73.1	80.5	85.3	79.2	93.9	84.4
1963	73.6	86.7	76.9	82.3	89.5	84.9	95.7	88.7
1964	78.4	89.6	81.8	86.0	91.2	87.6	95.9	91.3
1965	85.2	93.8	87.5	90.9	93.8	90.9	97.5	93.2
1966	93.1	98.5	93.8	96.3	96.7	94.6	99.3	95.2
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	106.9	102.2	106.1	102.4	104.4	104.7	100.8	103.9
1969	119.5	110.3	113.1	110.0	108.7	108.3	105.7	102.5
1970	128.9	116.0	121.7	116.9	110.3	111.1	106.0	104.9
1971	134.8	113.1	130.0	119.3	113.0	119.2	103.7	114.9
1972	147.8	118.6	138.3	126.1	117.2	124.6	106.8	116.6
1973	161.3	122.0	147.0	131.9	122.3	132.2	109.7	120.4
1974	169.2	123.8	156.1	137.0	123.5	136.7	108.4	126.1
1975	183.3	120.1	162.3	138.1	132.7	152.6	112.9	135.1
1976	198.7	119.3	168.1	140.4	141.6	166.5	118.3	140.8
1977	213.9	123.1	175.0	145.6	146.9	173.8	122.2	142.2
1978	238.8	129.0	183.3	152.5	156.5	185.1	130.2	142.1

TABLE V. MAJOR NONFARM, NONMANUFACTURING INDUSTRIES

5. Public Utilities

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	27.1	92.1	46.2	68.0	39.9	29.5	58.7	50.2
1949	30.0	92.5	48.6	69.4	43.3	32.5	61.7	52.6
1950	32.2	92.8	51.5	70.9	45.4	34.7	62.6	55.5
1951	37.3	92.6	54.8	72.4	51.5	40.3	68.0	59.2
1952	40.0	92.2	57.8	73.7	54.4	43.4	69.3	62.6
1953	43.0	92.7	61.3	75.6	56.8	46.3	70.1	66.1
1954	47.2	92.5	64.0	76.8	61.4	51.0	73.7	69.2
1955	49.8	93.0	66.9	78.5	63.4	53.6	74.4	72.0
1956	53.4	92.5	69.5	79.6	67.2	57.8	76.8	75.2
1957	56.7	93.4	73.2	81.8	69.3	60.6	77.4	78.3
1958	58.9	93.2	77.4	83.7	70.3	63.2	76.1	83.0
1959	64.3	93.7	79.4	84.9	75.7	68.6	81.0	84.7
1960	69.0	94.2	82.7	87.1	79.2	73.3	83.5	87.8
1961	72.7	93.8	84.4	88.0	82.6	77.5	86.1	90.0
1962	76.0	93.5	85.8	88.7	85.6	81.3	88.6	91.8
1963	79.9	94.8	87.6	90.4	88.4	84.3	91.2	92.4
1964	85.2	94.8	89.9	91.8	92.8	89.8	94.7	94.8
1965	89.4	97.3	92.5	94.4	94.7	91.8	96.6	95.1
1966	95.1	98.2	95.9	96.8	98.3	96.9	99.2	97.7
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	108.2	101.3	104.7	103.7	104.4	106.8	103.4	103.3
1969	115.0	104.7	110.0	108.2	106.2	109.8	104.5	105.1
1970	118.2	107.8	115.6	112.9	104.7	109.6	102.2	107.3
1971	124.9	107.0	121.9	116.5	107.2	116.7	102.4	113.9
1972	128.8	109.3	128.8	121.6	106.0	117.8	100.1	117.8
1973	137.8	112.3	135.8	127.0	108.5	122.7	101.5	120.9
1974	130.1	113.2	141.9	131.2	99.2	114.9	91.7	125.4
1975	138.3	110.5	146.2	132.8	104.2	125.1	94.6	132.3
1976	140.2	110.9	150.7	135.7	103.4	126.5	93.0	136.0
1977	144.3	113.1	155.6	139.5	103.4	127.6	92.7	137.6
1978	149.1	119.2	161.4	145.4	102.5	125.1	92.4	135.3

TABLE V. MAJOR NONFARM, NONMANUFACTURING INDUSTRIES

6. Trade

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	49.8	84.2	49.9	77.8	63.9	59.1	99.8	59.2
1949	49.7	84.6	52.4	78.7	63.1	58.7	94.8	62.0
1950	54.4	85.0	57.8	80.2	67.9	64.0	94.1	68.0
1951	55.0	86.6	61.3	82.2	66.9	63.5	89.7	70.8
1952	56.7	86.5	63.1	82.5	68.6	65.5	89.8	72.9
1953	58.5	87.4	64.2	83.4	70.0	66.9	91.1	73.4
1954	58.9	87.8	64.7	83.9	70.2	67.1	91.0	73.7
1955	64.2	90.0	68.0	86.3	74.3	71.3	94.4	75.6
1956	66.1	92.0	71.1	88.6	74.6	71.8	92.9	77.3
1957	67.1	92.0	73.9	89.2	75.3	73.0	90.9	80.3
1958	67.1	91.2	74.9	88.8	75.6	73.6	89.6	82.1
1959	72.0	94.4	77.0	91.8	78.5	76.3	93.6	81.5
1960	73.3	95.6	78.7	93.1	78.8	76.7	93.1	82.3
1961	74.1	95.0	79.3	92.6	80.0	78.0	93.5	83.5
1962	78.8	95.7	81.7	93.6	84.2	82.3	96.5	85.3
1963	81.8	95.1	84.9	93.6	87.5	86.0	96.4	89.2
1964	86.8	98.1	87.8	96.5	89.9	88.5	98.9	89.5
1965	92.5	100.6	91.5	99.3	93.1	91.9	101.1	90.9
1966	97.6	100.9	97.1	100.4	97.3	96.7	100.6	96.1
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	106.1	99.3	103.2	99.7	106.5	106.9	102.9	103.9
1969	108.5	108.5	106.6	108.0	100.5	100.0	101.8	98.2
1970	110.9	104.3	109.2	104.8	105.8	106.4	101.6	104.7
1971	116.2	106.0	113.7	107.0	108.5	109.6	102.2	107.2
1972	125.1	108.8	118.1	110.0	113.7	114.9	105.9	108.5
1973	131.9	111.5	123.2	113.1	116.6	118.3	107.0	110.5
1974	128.0	111.4	126.2	113.5	112.7	114.9	101.4	113.3
1975	128.3	110.9	123.9	112.7	113.8	115.7	103.5	111.8
1976	136.2	114.3	128.6	116.3	117.1	119.2	105.9	112.6
1977	141.8	117.5	134.4	119.9	118.3	120.7	105.5	114.4
1978	148.7	121.2	139.9	123.9	120.0	122.7	106.3	115.5

TABLE V. MAJOR NONFARM, NONMANUFACTURING INDUSTRIES

7. Finance and Insurance

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

	Output and Inputs				Productivity Ratios			
Year	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	50.5	59.8	37.0	55.3	91.4	84.5	136.6	61.8
1949	52.9	60.6	37.8	56.1	94.3	87.3	139.9	62.4
1950	55.0	62.1	39.1	57.6	95.6	88.6	140.9	62.9
1951	57.2	63.9	40.3	59.2	96.6	89.5	141.9	63.1
1952	60.4	66.3	42.9	61.6	98.0	91.1	140.9	64.6
1953	63.1	68.5	47.1	64.2	98.4	92.1	134.2	68.7
1954	66.2	71.2	47.5	66.4	99.7	93.1	139.4	66.7
1955	70.6	74.1	51.3	69.5	101.6	95.3	137.7	69.2
1956	74.2	75.5	54.6	71.2	104.2	98.3	135.8	72.4
1957	77.4	76.7	57.6	72.8	106.3	100.8	134.4	75.0
1958	78.0	78.9	60.5	75.0	103.9	98.9	128.9	76.7
1959	78.3	81.6	64.3	78.0	100.4	95.9	121.7	78.8
1960	81.5	84.4	67.7	80.9	100.7	96.5	120.4	80.2
1961	85.1	86.2	71.9	83.2	102.3	98.7	118.4	83.4
1962	95.2	88.9	76.1	86.2	110.5	107.1	125.1	85.6
1963	87.6	90.6	80.7	88.5	99.0	96.8	108.6	89.1
1964	87.6	93.6	84.9	91.8	95.4	93.6	103.2	90.7
1965	95.2	96.0	89.5	94.6	100.6	99.2	106.4	93.2
1966	95.6	97.1	94.1	96.5	99.1	98.4	101.5	97.0
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	106.9	104.9	105.5	104.1	102.7	101.9	101.3	100.6
1969	113.0	110.6	112.3	110.0	102.7	102.2	100.7	101.5
1970	117.4	112.8	119.0	113.0	104.0	104.1	98.7	105.5
1971	118.5	115.5	127.0	116.4	101.8	102.6	93.3	110.0
1972	122.3	118.9	134.6	120.5	101.5	102.9	90.9	113.2
1973	119.4	123.7	142.2	125.7	95.0	96.6	84.0	114.9
1974	130.6	127.0	151.0	129.9	100.6	102.9	86.5	118.9
1975	134.9	142.1	158.9	143.7	93.8	94.9	84.9	111.8
1976	137.6	144.8	166.3	147.1	93.6	95.1	82.8	114.9
1977	143.6	150.7	173.8	153.3	93.7	95.3	82.6	115.3
1978	151.3	157.9	183.1	160.7	94.1	95.8	82.6	116.0

TABLE V. MAJOR NONFARM, NONMANUFACTURING INDUSTRIES

8. Real Estate

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	38.7	99.8	71.8	74.3	52.1	38.8	54.0	71.9
1949	41.5	101.7	72.5	75.1	55.2	40.8	57.2	71.3
1950	44.4	99.5	73.7	75.9	58.5	44.6	60.3	74.0
1951	45.9	95.7	74.7	76.4	60.0	47.9	61.4	78.1
1952	49.2	92.2	75.1	76.3	64.4	53.3	65.4	81.4
1953	51.1	94.4	75.8	77.2	66.1	54.1	67.3	80.3
1954	53.6	96.5	76.9	78.4	68.4	55.5	69.7	79.7
1955	56.4	97.2	77.9	79.3	71.0	58.0	72.3	80.1
1956	58.7	96.7	79.6	80.8	72.7	60.7	73.8	82.3
1957	61.7	100.1	81.1	82.4	74.8	61.6	76.0	81.0
1958	65.1	102.1	82.1	83.5	78.0	63.8	79.4	80.4
1959	69.6	103.8	83.4	84.9	81.9	67.0	83.4	80.3
1960	72.2	105.5	84.8	86.3	83.6	68.4	85.1	80.4
1961	75.8	106.3	86.5	87.9	86.2	71.4	87.7	81.4
1962	80.7	103.7	88.6	89.7	89.9	77.8	91.1	85.4
1963	83.4	127.5	91.0	93.7	89.0	65.4	91.6	71.4
1964	87.3	127.6	93.4	95.9	91.1	68.4	93.5	73.2
1965	92.4	121.3	95.9	97.8	94.6	76.2	96.4	79.1
1966	96.5	101.9	98.0	98.3	98.1	94.6	98.4	96.2
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	103.9	88.9	102.5	107.1	97.0	116.9	101.4	115.3
1969	108.1	97.8	105.7	111.0	97.4	110.5	102.2	108.2
1970	110.0	92.3	108.5	113.2	97.2	119.2	101.4	117.5
1971	117.4	97.2	111.2	116.2	101.0	120.8	105.6	114.4
1972	122.6	99.9	114.3	119.5	102.6	122.7	107.2	114.4
1973	127.4	106.0	117.4	123.0	103.6	120.2	108.5	110.7
1974	132.6	112.3	118.7	124.7	106.3	118.1	111.8	105.7
1975	133.1	245.8	119.4	135.9	97.9	54.1	111.5	48.6
1976	141.7	260.1	120.5	138.0	102.6	54.5	117.6	46.3
1977	153.3	277.9	121.3	140.3	109.3	55.2	126.4	43.7
1978	160.8	312.4	122.8	144.4	111.4	51.5	131.0	39.3

TABLE V. MAJOR NONFARM, NONMANUFACTURING INDUSTRIES

9. Services

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	51.4	78.8	49.7	69.3	74.1	65.2	103.3	63.1
1949	51.2	77.9	50.4	68.9	74.4	65.8	101.7	64.6
1950	52.8	76.7	51.3	68.3	77.2	68.8	102.9	66.8
1951	53.8	76.0	52.2	68.1	79.0	70.7	103.0	68.6
1952	55.2	76.8	52.3	68.6	80.4	71.8	105.5	68.1
1953	56.1	77.0	52.6	68.8	81.5	72.8	106.7	68.3
1954	56.0	76.9	53.0	68.9	81.3	72.9	105.7	68.9
1955	59.2	78.2	54.3	70.2	84.3	75.7	108.9	69.5
1956	62.4	79.4	56.7	71.6	87.1	78.6	110.1	71.4
1957	64.4	81.4	59.2	73.8	87.3	79.1	108.7	72.7
1958	66.2	83.8	61.4	76.1	87.0	79.0	107.8	73.3
1959	71.0	87.4	64.2	79.4	89.4	81.2	110.6	73.5
1960	71.1	89.5	67.4	81.9	86.8	79.4	105.5	75.3
1961	74.6	91.4	70.8	84.3	88.5	81.6	105.4	77.5
1962	77.4	92.6	75.0	86.5	89.5	83.6	103.3	80.9
1963	81.1	94.9	79.7	89.7	90.4	85.4	101.8	83.9
1964	86.0	94.9	84.2	91.2	94.3	90.7	102.1	88.8
1965	90.0	96.8	89.5	94.3	95.4	93.0	100.5	92.5
1966	94.6	98.9	95.4	97.7	96.8	95.7	99.2	96.4
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	103.1	98.9	107.2	100.0	103.1	104.2	96.2	108.4
1969	109.0	105.4	114.8	106.7	102.1	103.4	94.9	108.9
1970	113.4	106.0	119.0	108.5	104.6	107.0	95.3	112.3
1971	115.4	104.5	122.9	108.7	106.2	110.4	93.9	117.6
1972	124.8	107.7	127.4	112.2	111.2	115.8	97.9	118.3
1973	134.7	112.0	132.3	116.6	115.5	120.2	101.8	118.1
1974	136.9	114.7	135.9	119.5	114.5	119.3	100.7	118.5
1975	135.8	116.6	138.8	121.7	111.6	116.4	97.9	119.0
1976	142.6	120.9	142.0	125.6	113.6	118.0	100.4	117.5
1977	150.5	126.2	145.5	130.3	115.4	119.2	103.4	115.3
1978	161.0	130.5	149.4	134.4	119.9	123.4	107.8	114.5

TABLE VI. MANUFACTURING INDUSTRIES

1. Food

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	59.3	105.7	84.0	99.2	59.8	56.1	70.6	79.4
1949	57.9	103.0	87.4	98.3	58.8	56.2	66.2	84.9
1950	61.8	103.5	90.1	99.5	62.1	59.7	68.6	87.0
1951	62.6	105.7	92.5	101.8	61.5	59.2	67.6	87.5
1952	66.1	105.3	91.3	101.2	65.3	62.7	72.4	86.7
1953	70.0	104.9	90.2	100.5	69.6	66.7	77.6	86.0
1954	69.2	103.2	89.9	99.3	69.7	67.0	77.0	87.1
1955	70.8	104.1	93.0	100.8	70.2	68.0	76.1	89.3
1956	74.0	104.4	93.9	101.4	73.0	70.8	78.8	89.9
1957	76.6	101.2	93.9	99.1	77.3	75.7	81.5	92.8
1958	77.1	99.3	95.0	98.2	78.6	77.7	81.2	95.6
1959	78.4	100.8	94.9	99.1	79.1	77.8	82.7	94.1
1960	79.1	100.4	94.6	98.8	80.1	78.8	83.6	94.3
1961	80.1	99.8	95.0	98.4	81.4	80.3	84.4	95.2
1962	83.1	99.2	96.1	98.4	84.4	83.7	86.4	96.8
1963	88.8	98.6	96.3	98.0	90.7	90.1	92.2	97.6
1964	91.0	98.2	97.1	97.9	92.9	92.6	93.6	98.9
1965	93.1	99.3	95.6	98.3	94.8	93.8	97.5	96.2
1966	99.6	100.2	97.3	99.4	100.2	99.4	102.3	97.2
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	101.2	99.4	101.3	100.2	101.0	101.8	99.9	101.9
1969	104.7	100.1	101.8	100.8	103.8	104.6	102.8	101.7
1970	108.2	98.8	103.8	100.3	107.9	109.6	104.3	105.0
1971	108.3	96.6	105.0	98.9	109.4	112.1	103.1	108.8
1972	114.0	95.8	104.6	98.3	116.0	119.0	109.0	109.2
1973	113.1	94.3	105.3	97.3	116.2	119.9	107.3	111.7
1974	104.9	93.8	107.9	97.6	107.5	111.9	97.2	115.0
1975	115.6	90.8	108.9	95.6	120.9	127.3	106.2	119.8
1976	124.8	93.2	113.2	98.5	126.7	133.9	110.3	121.4
1977	131.4	92.6	114.6	98.4	133.6	141.9	114.6	123.8
1978	133.2	91.8	115.8	98.1	135.8	145.1	115.0	126.2

TABLE VI. MANUFACTURING INDUSTRIES

2. Tobacco

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	65.7	131.4	79.4	103.7	63.4	50.0	82.8	60.4
1949	70.5	122.4	84.6	101.8	69.2	57.6	83.2	69.2
1950	66.8	118.1	81.2	98.0	68.1	56.5	82.2	68.8
1951	80.6	120.6	98.4	107.7	74.9	66.8	82.0	81.6
1952	78.1	122.0	99.9	109.1	71.5	64.0	78.1	81.9
1953	71.9	118.7	98.4	106.8	67.4	60.6	73.1	82.9
1954	67.5	116.8	95.1	104.2	64.7	57.8	70.9	81.4
1955	71.8	119.3	100.8	108.3	66.3	60.2	71.2	84.5
1956	76.1	116.2	94.1	103.4	73.5	65.4	80.8	81.0
1957	79.3	112.0	95.7	102.2	77.6	70.8	82.9	85.4
1958	84.6	111.1	94.4	101.1	83.6	76.1	89.6	85.0
1959	89.7	111.2	94.6	101.2	88.7	80.7	94.8	85.1
1960	92.6	108.0	98.2	102.1	90.7	85.7	94.3	90.9
1961	96.4	106.4	103.8	104.9	92.0	90.6	92.9	97.6
1962	99.8	105.1	104.5	104.7	95.3	95.0	95.5	99.4
1963	100.8	102.7	103.5	103.2	97.6	98.1	97.3	100.8
1964	96.9	104.8	104.7	104.8	92.5	92.4	92.5	99.9
1965	95.9	98.5	102.1	100.7	95.2	97.3	93.9	103.7
1966	97.4	99.4	98.5	98.8	98.6	98.0	98.9	99.1
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	102.4	96.0	97.4	97.8	104.7	106.6	105.1	101.4
1969	104.2	93.0	95.5	95.4	109.2	112.1	109.1	102.8
1970	109.6	93.9	91.3	93.2	117.7	116.8	120.1	97.3
1971	111.5	87.3	91.6	90.8	122.8	127.7	121.7	105.0
1972	115.1	84.3	97.6	93.3	123.4	136.5	118.0	115.7
1973	119.0	89.6	100.4	97.1	122.6	132.8	118.6	112.0
1974	120.9	88.4	109.5	102.3	118.2	136.7	110.4	123.8
1975	126.1	86.4	112.5	103.3	122.1	145.9	112.1	130.2
1976	132.5	86.0	112.6	103.2	128.5	154.1	117.7	130.8
1977	134.2	84.1	114.3	103.5	129.7	159.6	117.4	135.9
1978	129.9	83.2	112.9	102.3	127.0	156.1	115.0	135.7

TABLE VI. MANUFACTURING INDUSTRIES

3. Textiles

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	56.1	133.3	43.7	106.7	52.6	42.1	128.5	32.7
1949	51.3	114.3	49.6	95.3	53.8	44.8	103.4	43.4
1950	53.8	127.0	59.4	107.2	50.2	42.4	90.6	46.7
1951	56.4	122.6	67.9	106.9	52.8	46.0	83.1	55.4
1952	55.4	116.1	67.8	102.4	54.1	47.7	81.7	58.4
1953	54.4	115.3	71.5	102.9	52.8	47.2	76.1	62.0
1954	51.5	102.0	73.8	94.4	54.6	50.5	69.8	72.3
1955	57.3	107.5	78.3	99.7	57.4	53.3	73.1	72.8
1956	58.3	104.6	84.0	99.5	58.6	55.8	69.5	80.3
1957	57.0	97.5	82.8	94.2	60.5	58.4	68.8	84.9
1958	56.1	90.6	84.3	89.9	62.4	61.9	66.5	93.1
1959	61.2	97.6	84.3	94.7	64.6	62.7	72.6	86.3
1960	59.3	93.3	87.2	92.0	64.5	63.6	68.0	93.5
1961	59.8	91.1	87.5	90.3	66.3	65.7	68.4	96.0
1962	63.9	93.6	88.2	92.4	69.2	68.3	72.4	94.3
1963	80.9	91.7	88.1	90.9	89.0	88.3	91.8	96.1
1964	86.3	93.1	89.1	92.2	93.6	92.7	96.8	95.7
1965	94.4	98.4	91.9	97.0	97.3	95.9	102.8	93.3
1966	103.5	102.8	97.4	101.6	101.8	100.6	106.3	94.7
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	105.2	104.6	103.3	104.2	101.0	100.6	101.8	98.8
1969	106.9	104.2	106.1	104.5	102.3	102.5	100.8	101.7
1970	111.7	99.1	108.2	101.1	110.5	112.7	103.2	109.2
1971	113.8	98.7	109.8	101.2	112.5	115.2	103.6	111.3
1972	123.4	103.9	111.2	105.4	117.1	118.8	111.0	107.1
1973	123.6	105.2	110.0	106.2	116.4	117.4	112.3	104.5
1974	117.0	97.2	114.2	100.9	115.9	120.4	102.4	117.5
1975	108.6	87.0	110.3	92.3	117.6	124.8	98.4	126.8
1976	119.1	94.0	109.2	97.4	122.2	126.6	109.0	116.1
1977	127.3	94.2	111.5	98.0	129.9	135.2	114.2	118.4
1978	133.2	94.4	112.5	98.5	135.3	141.1	118.3	119.2

TABLE VI. MANUFACTURING INDUSTRIES

4. Apparel

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	58.6	86.0	82.5	86.5	67.7	68.1	71.0	95.9
1949	58.3	83.7	79.4	84.1	69.4	69.7	73.5	94.8
1950	63.3	87.0	80.9	87.2	72.6	72.7	78.2	93.0
1951	67.0	86.3	77.1	86.1	77.8	77.6	86.9	89.3
1952	68.5	88.6	76.7	88.0	77.8	77.3	89.3	86.6
1953	69.2	90.3	76.2	89.4	77.3	76.6	90.7	84.4
1954	65.0	83.8	73.2	83.4	78.0	77.5	88.9	87.3
1955	69.8	88.7	73.2	87.6	79.7	78.7	95.4	82.5
1956	71.3	88.2	66.0	86.2	82.7	80.8	108.1	74.8
1957	70.3	86.5	67.2	84.9	82.8	81.2	104.6	77.6
1958	69.0	82.4	65.8	81.1	85.1	83.8	104.9	79.9
1959	73.4	89.1	66.7	87.0	84.3	82.4	110.0	74.9
1960	75.8	87.7	66.8	85.7	88.5	86.5	113.6	76.2
1961	74.5	86.1	67.8	84.4	88.3	86.6	109.9	78.8
1962	79.1	91.5	74.6	89.9	88.0	86.5	106.1	81.6
1963	81.8	92.6	78.8	91.3	89.6	88.4	103.9	85.1
1964	85.9	93.0	82.4	92.0	93.3	92.3	104.3	88.6
1965	92.6	98.6	88.3	97.7	94.8	93.9	104.8	89.6
1966	100.7	102.0	94.6	101.3	99.4	98.7	106.4	92.8
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	105.2	100.3	109.5	103.0	102.1	104.9	96.1	109.2
1969	104.0	100.3	115.6	103.6	100.3	103.7	90.0	115.2
1970	100.9	95.5	118.6	99.6	101.3	105.7	85.1	124.2
1971	103.7	94.8	125.5	99.8	103.9	109.4	82.7	132.4
1972	116.4	98.9	130.3	104.1	111.8	117.7	89.3	131.7
1973	131.9	102.3	135.7	107.8	122.3	128.9	97.1	132.7
1974	121.1	95.3	132.5	101.1	119.8	127.2	91.4	139.1
1975	121.9	86.9	127.9	93.0	131.1	140.3	95.3	147.3
1976	132.5	93.7	130.2	99.4	133.3	141.4	101.7	138.9
1977	138.2	92.9	134.7	99.2	139.3	148.8	102.5	145.1
1978	144.6	93.1	137.5	99.7	145.0	155.3	105.2	147.7

TABLE VI. MANUFACTURING INDUSTRIES

5. Lumber

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	61.4	130.6	168.2	141.3	43.5	47.0	36.5	128.7
1949	54.0	117.0	152.3	127.0	42.5	46.1	35.4	130.2
1950	57.6	126.9	139.5	131.2	43.9	45.4	41.3	109.9
1951	58.3	131.1	132.8	132.6	44.0	44.5	43.9	101.3
1952	57.7	125.7	123.0	126.0	45.8	45.9	46.9	97.9
1953	55.0	122.0	113.0	120.7	45.6	45.1	48.7	92.7
1954	53.1	112.4	106.6	111.8	47.5	47.3	49.8	94.9
1955	61.6	118.0	102.0	114.8	53.6	52.2	60.3	86.5
1956	61.7	114.5	99.2	111.5	55.3	53.8	62.1	86.7
1957	58.2	103.0	86.0	99.5	58.5	56.5	67.7	83.5
1958	54.1	97.9	81.4	94.5	57.2	55.2	66.4	83.1
1959	63.7	107.5	77.8	100.8	63.2	59.2	81.9	72.3
1960	60.5	101.2	78.7	96.1	63.0	59.8	76.9	77.8
1961	57.5	96.3	78.1	92.2	62.4	59.8	73.6	81.2
1962	57.9	98.0	81.0	94.1	61.6	59.1	71.5	82.7
1963	71.3	95.9	84.2	93.3	76.5	74.3	84.7	87.8
1964	87.1	99.2	88.6	96.8	90.0	87.9	98.4	89.3
1965	97.5	102.3	93.6	100.3	97.2	95.3	104.2	91.5
1966	96.0	103.5	96.8	101.9	94.2	92.8	99.2	93.6
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	106.2	99.3	102.4	101.5	104.7	107.0	103.7	103.1
1969	105.4	103.4	109.9	106.5	99.0	101.9	95.9	106.3
1970	111.3	97.0	113.2	103.1	107.9	114.7	98.3	116.7
1971	113.0	100.2	118.3	107.0	105.7	112.8	95.5	118.1
1972	123.6	110.0	125.0	115.8	106.8	112.4	98.9	113.7
1973	126.1	114.4	134.4	121.9	103.5	110.3	93.8	117.5
1974	123.5	105.1	144.9	118.9	103.9	117.5	85.2	137.9
1975	112.3	88.9	143.9	107.4	104.6	126.3	78.0	161.9
1976	125.0	102.6	147.6	117.9	106.0	121.9	84.7	143.9
1977	130.1	109.0	153.8	124.4	104.6	119.3	84.6	141.1
1978	133.0	113.4	158.8	129.0	103.1	117.3	83.7	140.1

TABLE VI. MANUFACTURING INDUSTRIES

6. Furniture

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	57.9	80.2	87.6	81.3	71.2	72.2	66.0	109.2
1949	54.7	71.9	84.4	73.6	74.3	76.1	64.8	117.4
1950	66.4	85.3	87.6	85.7	77.5	77.8	75.8	102.7
1951	63.3	82.7	95.4	84.4	75.0	76.6	66.3	115.4
1952	70.1	83.3	97.8	85.3	82.3	84.2	71.7	117.4
1953	68.0	85.1	97.2	86.8	78.4	79.9	70.0	114.2
1954	65.3	77.3	94.6	79.6	82.0	84.5	69.0	122.5
1955	75.9	84.7	98.2	86.6	87.6	89.6	77.3	115.9
1956	76.3	85.7	104.4	88.3	86.4	89.0	73.1	121.8
1957	72.8	83.8	79.4	83.3	87.4	86.9	91.7	94.8
1958	66.3	79.6	79.0	79.6	83.4	83.4	84.0	99.3
1959	75.8	87.6	80.1	86.7	87.4	86.5	94.6	91.4
1960	75.2	85.8	81.8	85.3	88.1	87.6	91.9	95.3
1961	71.9	82.6	78.8	82.1	87.5	87.0	91.2	95.4
1962	77.8	87.6	81.8	86.9	89.6	88.8	95.2	93.3
1963	81.0	87.4	82.5	86.8	93.3	92.7	98.2	94.4
1964	88.2	91.3	82.9	90.3	97.7	96.6	106.5	90.7
1965	99.3	97.2	89.9	96.3	103.1	102.1	110.4	92.5
1966	105.3	102.8	97.9	102.2	103.1	102.4	107.7	95.2
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	106.0	102.6	101.7	101.9	104.0	103.3	104.2	99.1
1969	114.6	104.5	108.9	104.4	109.8	109.7	105.3	104.2
1970	98.5	96.4	105.7	97.2	101.3	102.1	93.1	109.6
1971	102.5	98.9	106.5	99.4	103.2	103.7	96.3	107.7
1972	122.7	108.5	112.0	108.2	113.3	113.1	109.5	103.2
1973	129.2	113.5	118.7	113.5	113.9	113.8	108.8	104.6
1974	120.2	107.4	125.1	109.5	109.7	111.9	96.1	116.4
1975	106.0	89.2	117.7	93.2	113.8	118.9	90.1	132.0
1976	121.6	96.3	119.5	99.4	122.4	126.3	101.8	124.1
1977	125.1	103.4	123.5	105.9	118.1	121.0	101.3	119.5
1978	133.2	108.2	127.2	110.5	120.6	123.1	104.7	117.5

TABLE VI. MANUFACTURING INDUSTRIES

7. Paper

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	46.9	69.8	56.6	65.2	72.0	67.2	82.9	81.1
1949	46.8	65.4	58.3	63.0	74.2	71.5	80.2	89.2
1950	60.8	72.3	60.1	68.1	89.3	84.1	101.2	83.1
1951	65.0	75.9	62.4	71.2	91.4	85.7	104.3	82.2
1952	59.9	74.2	64.2	70.8	84.6	80.7	93.3	86.5
1953	63.4	78.5	65.4	74.0	85.7	80.8	96.9	83.3
1954	65.1	77.3	67.2	73.9	88.1	84.2	96.9	86.9
1955	71.7	81.6	70.0	77.6	92.4	87.9	102.4	85.8
1956	73.8	83.6	73.2	80.1	92.2	88.3	100.9	87.5
1957	68.3	83.0	75.5	80.6	84.8	82.3	90.5	90.9
1958	68.8	81.3	76.6	79.9	86.1	84.6	89.8	94.3
1959	77.2	86.5	78.3	83.8	92.2	89.3	98.6	90.6
1960	76.0	87.1	79.4	84.5	89.8	87.2	95.6	91.2
1961	79.8	87.9	81.1	85.7	93.1	90.7	98.3	92.3
1962	83.4	90.0	82.9	87.7	95.1	92.7	100.6	92.1
1963	84.8	90.9	84.4	88.8	95.5	93.3	100.5	92.8
1964	91.2	92.0	86.2	90.1	101.2	99.1	105.8	93.7
1965	95.9	94.7	89.8	93.1	103.0	101.3	106.8	94.8
1966	102.7	99.6	95.1	98.1	104.7	103.1	108.1	95.4
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	110.0	102.0	102.5	102.1	107.7	107.8	107.3	100.5
1969	120.0	105.1	106.8	105.6	113.7	114.2	112.4	101.6
1970	109.6	101.8	109.2	104.0	105.5	107.7	100.4	107.3
1971	117.2	98.6	110.7	102.1	114.7	118.9	105.9	112.2
1972	131.7	101.4	111.6	104.4	126.2	129.9	118.0	110.1
1973	149.4	104.0	113.6	106.8	139.9	143.7	131.5	109.2
1974	139.6	102.4	117.8	107.0	130.5	136.2	118.5	115.0
1975	119.3	91.8	119.8	100.1	119.3	130.0	99.6	130.5
1976	134.8	98.7	123.8	106.1	127.1	136.6	108.9	125.3
1977	144.3	102.3	128.2	109.9	131.3	141.1	112.6	125.3
1978	149.1	103.7	131.4	111.9	133.3	143.8	113.4	126.8

TABLE VI. MANUFACTURING INDUSTRIES

8. Printing & Publishing

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	50.6	76.2	78.9	76.7	65.9	66.4	64.1	103.6
1949	53.0	74.7	78.4	75.5	70.3	71.0	67.7	104.9
1950	53.5	75.3	78.3	75.9	70.4	70.9	68.3	103.9
1951	54.6	76.9	78.0	77.2	70.8	71.0	70.0	101.5
1952	55.7	77.9	76.3	77.7	71.7	71.5	73.0	98.0
1953	58.0	80.1	74.3	79.2	73.2	72.4	78.0	92.7
1954	61.0	80.1	72.9	78.9	77.4	76.2	83.7	91.1
1955	64.9	82.8	72.7	81.1	80.1	78.5	89.3	87.9
1956	67.5	85.2	71.6	82.9	81.4	79.2	94.3	84.0
1957	68.4	85.3	70.7	82.8	82.6	80.2	96.7	82.9
1958	66.7	84.0	70.7	81.8	81.5	79.3	94.3	84.1
1959	71.2	86.7	74.2	84.5	84.3	82.2	96.0	85.6
1960	73.1	88.6	74.4	86.2	84.9	82.5	98.4	83.9
1961	74.0	88.6	76.9	86.6	85.4	83.5	96.2	86.8
1962	77.0	89.6	78.5	87.7	87.8	86.0	98.1	87.7
1963	83.6	90.3	82.2	88.9	94.0	92.6	101.7	91.0
1964	91.5	91.8	84.9	90.6	101.0	99.7	107.8	92.4
1965	94.4	95.4	88.3	94.2	100.1	98.9	106.8	92.6
1966	98.9	98.4	94.7	97.7	101.2	100.6	104.4	96.3
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	102.8	101.1	104.9	102.7	100.1	101.6	97.9	103.8
1969	107.9	104.0	110.0	106.0	101.8	103.8	98.1	105.8
1970	101.7	103.0	112.6	105.8	96.2	98.7	90.3	109.3
1971	102.7	100.2	116.6	104.3	98.5	102.5	88.1	116.4
1972	108.0	102.1	120.6	106.7	101.2	105.7	89.5	118.1
1973	115.0	104.6	126.4	109.9	104.7	110.0	91.0	120.8
1974	108.3	104.2	128.4	110.0	98.4	103.9	84.3	123.2
1975	104.1	101.1	128.0	107.4	96.9	103.0	81.3	126.7
1976	111.6	103.0	129.8	109.3	102.1	108.3	86.0	126.0
1977	118.1	107.3	133.9	113.6	103.9	110.0	88.2	124.8
1978	124.9	111.5	139.0	118.0	105.8	112.0	89.9	124.6

TABLE VI. MANUFACTURING INDUSTRIES

9. Chemicals

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	30.7	66.1	39.8	54.0	56.9	46.5	77.1	60.2
1949	30.1	61.6	42.8	53.0	56.8	48.9	70.3	69.5
1950	36.0	64.4	46.0	56.0	64.4	55.9	78.3	71.3
1951	38.5	71.1	50.7	61.8	62.4	54.1	75.9	71.3
1952	38.8	72.7	55.2	64.6	60.1	53.4	70.4	75.9
1953	41.7	76.6	58.5	68.3	61.0	54.4	71.2	76.4
1954	43.8	74.7	61.4	68.6	63.8	58.7	71.3	82.3
1955	50.6	77.2	64.4	71.4	70.8	65.5	78.5	83.4
1956	52.9	79.5	68.1	74.3	71.2	66.5	77.7	85.7
1957	55.2	80.4	71.3	76.3	72.4	68.6	77.4	88.7
1958	54.2	78.4	74.1	76.5	70.9	69.1	73.2	94.5
1959	62.5	81.3	76.6	79.2	78.9	76.9	81.6	94.3
1960	62.7	83.0	79.2	81.3	77.1	75.6	79.1	95.5
1961	65.0	83.2	81.0	82.2	79.1	78.2	80.3	97.4
1962	69.9	85.6	82.5	84.2	83.1	81.7	84.8	96.4
1963	78.0	87.0	83.8	85.6	91.1	89.6	93.0	96.4
1964	84.4	88.2	86.0	87.2	96.8	95.7	98.2	97.4
1965	92.4	91.8	90.2	91.1	101.5	100.7	102.4	98.3
1966	98.8	96.9	95.7	96.4	102.5	101.9	103.2	98.8
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	113.8	103.5	103.7	103.4	110.1	110.0	109.7	100.2
1969	120.0	106.3	107.8	106.7	112.4	112.9	111.3	101.4
1970	120.9	104.7	111.7	107.3	112.7	115.4	108.2	106.6
1971	125.2	100.9	113.6	105.7	118.5	124.1	110.2	112.7
1972	136.2	100.9	114.8	106.2	128.3	134.9	118.6	113.7
1973	146.8	104.0	116.4	108.7	135.1	141.2	126.2	111.9
1974	136.7	105.5	121.6	111.6	122.5	129.6	112.4	115.3
1975	134.3	99.6	124.3	109.0	123.2	134.8	108.0	124.8
1976	148.4	103.9	130.1	113.9	130.3	142.8	114.1	125.2
1977	158.0	107.0	137.1	118.5	133.3	147.7	115.2	128.2
1978	164.7	109.2	144.9	122.9	134.0	150.8	113.7	132.7

TABLE VI. MANUFACTURING INDUSTRIES

10. Petroleum

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	50.2	119.1	62.6	80.7	62.2	42.1	80.1	52.6
1949	50.4	114.6	65.6	81.7	61.7	44.0	76.7	57.3
1950	57.6	114.4	66.0	81.9	70.4	50.4	87.4	57.7
1951	58.3	121.2	68.8	85.9	67.9	48.1	84.8	56.7
1952	58.9	122.1	72.4	88.8	66.3	48.3	81.4	59.3
1953	62.6	126.2	76.7	93.3	67.1	49.6	81.6	60.8
1954	61.0	124.5	79.3	94.8	64.3	49.0	76.9	63.7
1955	68.9	124.6	81.8	96.7	71.2	55.2	84.1	65.7
1956	70.6	124.2	84.8	98.8	71.5	56.9	83.3	68.3
1957	69.9	121.9	90.6	102.6	68.1	57.3	77.1	74.3
1958	69.3	117.8	89.1	100.2	69.2	58.9	77.8	75.6
1959	77.1	114.3	88.6	98.9	78.0	67.5	87.0	77.5
1960	78.6	112.2	87.4	97.3	81.0	70.3	90.2	77.9
1961	82.1	107.2	89.4	96.5	85.1	76.6	91.9	83.3
1962	88.0	104.7	91.1	96.5	91.2	84.1	96.7	86.9
1963	91.2	100.5	91.7	95.2	95.8	90.8	99.5	91.3
1964	93.1	97.7	92.2	94.4	98.6	95.3	101.0	94.4
1965	97.6	98.4	93.8	95.7	102.1	99.2	104.1	95.3
1966	100.0	100.3	95.6	97.5	102.6	99.8	104.6	95.4
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	108.0	100.9	104.1	104.9	102.9	107.0	103.8	103.1
1969	109.4	98.7	107.4	106.0	103.2	110.9	101.9	108.8
1970	116.0	104.0	111.4	110.5	105.0	111.6	104.2	107.1
1971	119.3	106.1	114.8	113.5	105.1	112.5	104.0	108.2
1972	122.9	106.0	115.8	114.2	107.5	115.9	106.1	109.2
1973	129.0	104.3	117.0	114.4	112.8	123.7	110.3	112.2
1974	125.2	105.4	122.5	118.4	105.7	118.8	102.2	116.2
1975	126.2	101.8	126.3	119.6	105.5	124.0	100.0	124.0
1976	134.3	106.2	131.4	124.6	107.8	126.4	102.2	123.7
1977	158.6	109.8	134.4	127.8	124.1	144.5	118.0	122.4
1978	159.9	115.7	136.9	131.6	121.5	138.2	116.8	118.3

TABLE VI. MANUFACTURING INDUSTRIES

11. Rubber

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	37.2	57.7	44.3	54.6	68.1	64.5	83.9	76.9
1949	34.0	51.3	46.0	50.0	68.0	66.4	74.0	89.6
1950	39.6	60.0	42.3	56.0	70.8	66.0	93.6	70.5
1951	49.3	64.0	50.3	60.8	81.1	77.1	98.1	78.6
1952	49.1	64.9	54.5	62.5	78.6	75.7	90.1	84.0
1953	49.3	68.5	57.9	66.1	74.7	72.0	85.1	84.6
1954	44.5	61.4	59.3	60.9	73.0	72.4	75.1	96.5
1955	49.5	71.3	60.7	68.8	72.0	69.5	81.7	85.1
1956	48.5	70.0	64.1	68.6	70.6	69.2	75.6	91.6
1957	48.2	70.9	66.2	69.8	69.1	68.0	72.8	93.4
1958	46.7	63.4	68.6	64.6	72.3	73.7	68.0	108.3
1959	58.6	72.2	71.4	72.0	81.3	81.1	82.0	98.9
1960	58.7	70.9	75.2	72.0	81.5	82.7	78.0	105.9
1961	61.6	71.0	76.8	72.4	85.1	86.8	80.2	108.2
1962	70.5	78.5	79.4	78.7	89.5	89.8	88.7	101.2
1963	77.1	80.1	80.6	80.2	96.2	96.3	95.7	100.6
1964	83.5	84.6	84.3	84.5	98.8	98.7	99.0	99.7
1965	90.8	92.8	88.5	91.7	99.0	97.8	102.5	95.4
1966	98.3	100.5	93.4	98.7	99.6	97.9	105.2	93.0
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	113.0	109.1	107.2	108.2	104.4	103.6	105.4	98.2
1969	125.0	115.0	114.7	114.4	109.2	108.7	109.0	99.7
1970	112.9	109.3	119.9	111.2	101.5	103.2	94.1	109.6
1971	121.0	109.5	123.0	112.0	108.1	110.5	98.4	112.3
1972	135.2	120.9	130.1	122.4	110.5	111.8	104.0	107.5
1973	153.0	132.9	140.5	134.0	114.2	115.1	108.8	105.8
1974	138.0	131.4	145.6	133.9	103.0	105.0	94.8	110.8
1975	129.6	113.4	143.5	119.5	108.5	114.3	90.3	126.6
1976	142.7	122.2	145.5	126.8	112.5	116.7	98.1	119.0
1977	153.6	136.0	152.2	138.9	110.6	113.0	100.9	112.0
1978	165.6	142.9	157.3	145.4	113.9	115.9	105.3	110.1

TABLE VI. MANUFACTURING INDUSTRIES

12. Leather

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	98.0	115.0	87.0	111.1	88.2	85.2	112.6	75.6
1949	87.1	106.8	85.9	104.2	83.5	81.5	101.3	80.4
1950	86.5	111.4	110.9	112.8	76.7	77.7	78.0	99.6
1951	92.6	105.1	94.7	104.5	88.6	88.1	97.8	90.1
1952	81.6	110.6	109.9	111.9	72.9	73.8	74.3	99.4
1953	86.4	109.9	109.5	111.3	77.6	78.6	78.9	99.6
1954	79.4	103.2	109.6	105.8	75.1	77.0	72.5	106.2
1955	83.5	109.6	116.0	112.3	74.3	76.2	71.9	105.9
1956	84.0	107.8	82.2	104.3	80.5	77.9	102.2	76.2
1957	82.3	104.5	83.2	101.8	80.9	78.7	98.8	79.7
1958	77.7	98.8	82.1	96.9	80.2	78.7	94.7	83.1
1959	93.1	106.2	91.8	104.8	88.7	87.6	101.4	86.4
1960	86.8	100.5	92.9	99.8	87.0	86.4	93.5	92.4
1961	85.9	100.5	91.1	99.6	86.2	85.4	94.2	90.7
1962	93.9	101.7	91.5	100.7	93.3	92.4	102.7	90.0
1963	95.6	99.3	92.7	98.7	96.8	96.2	103.1	93.3
1964	98.0	98.1	93.0	97.6	100.5	100.0	105.4	94.8
1965	103.0	100.6	92.8	99.8	103.2	102.5	111.0	92.3
1966	108.5	105.1	96.3	104.2	104.1	103.3	112.7	91.6
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	103.9	101.4	103.1	100.5	103.3	102.4	100.7	101.7
1969	100.4	95.0	104.3	94.9	105.8	105.7	96.3	109.8
1970	93.4	88.9	103.5	89.6	104.3	105.1	90.3	116.4
1971	89.5	84.3	100.6	85.3	104.9	106.1	88.9	119.3
1972	89.4	84.4	94.5	84.6	105.7	105.9	94.6	112.0
1973	97.2	80.0	98.9	81.4	119.5	121.5	98.3	123.6
1974	90.0	74.4	100.1	76.8	117.3	120.9	89.9	134.5
1975	85.9	68.4	94.7	70.9	121.2	125.6	90.7	138.4
1976	94.0	73.2	92.2	74.7	126.0	128.5	102.0	126.0
1977	90.5	70.6	92.8	72.5	124.8	128.2	97.5	131.5
1978	91.5	70.9	94.5	73.0	125.3	129.1	96.7	133.4

TABLE VI. MANUFACTURING INDUSTRIES

13. Stone, Clay & Glass

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	57.6	86.8	48.0	75.6	76.2	66.4	120.0	55.3
1949	53.7	79.4	49.2	70.5	76.2	67.7	109.1	62.0
1950	64.3	87.2	51.5	76.8	83.8	73.8	124.9	59.1
1951	69.1	94.1	55.3	82.8	83.4	73.4	124.9	58.8
1952	66.3	89.9	57.1	80.2	82.7	73.8	116.2	63.5
1953	70.1	92.0	58.7	82.1	85.4	76.3	119.5	63.8
1954	68.3	86.8	60.0	78.7	86.8	78.7	113.9	69.1
1955	78.8	94.3	64.0	85.2	92.5	83.6	123.2	67.9
1956	77.6	96.2	69.4	88.0	88.1	80.6	111.7	72.2
1957	75.4	93.0	73.1	86.7	86.9	81.0	103.1	78.6
1958	73.5	87.1	75.0	82.9	88.7	84.4	98.0	86.1
1959	83.2	96.2	80.4	90.9	91.5	86.5	103.5	83.5
1960	81.7	94.8	83.1	90.9	89.9	86.2	98.3	87.7
1961	81.6	91.7	84.6	89.3	91.4	89.0	96.4	92.3
1962	86.0	93.9	85.4	91.0	94.5	91.6	100.7	90.9
1963	93.1	95.4	87.9	92.9	100.2	97.6	105.9	92.2
1964	99.6	98.4	90.3	95.7	104.0	101.2	110.3	91.7
1965	103.2	101.2	92.0	98.1	105.1	102.0	112.1	90.9
1966	104.0	103.7	96.7	101.3	102.6	100.3	107.5	93.3
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	103.4	101.5	100.1	101.0	102.4	101.9	103.2	98.7
1969	109.6	104.8	103.4	104.3	105.1	104.6	106.0	98.7
1970	104.0	101.0	106.2	102.2	101.7	102.9	97.9	105.2
1971	105.9	102.4	106.9	103.5	102.3	103.4	99.0	104.4
1972	117.2	108.8	109.9	109.0	107.5	107.7	106.6	101.1
1973	125.8	114.5	113.2	114.0	110.3	109.9	111.2	98.9
1974	113.0	111.6	116.9	112.9	100.1	101.2	96.6	104.7
1975	103.3	97.4	115.7	102.0	101.3	106.1	89.3	118.8
1976	118.9	101.5	116.8	105.3	112.9	117.2	101.8	115.1
1977	121.9	105.8	118.8	109.1	111.7	115.2	102.5	112.3
1978	132.6	110.9	121.4	113.5	116.8	119.5	109.2	109.4

TABLE VI. MANUFACTURING INDUSTRIES

14. Primary Metals

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	72.6	95.6	49.8	81.9	88.7	76.0	146.0	52.0
1949	64.6	80.4	50.9	71.5	90.3	80.4	126.9	63.3
1950	76.4	94.0	53.0	81.7	93.5	81.3	144.1	56.4
1951	91.6	104.6	56.3	90.1	101.6	87.6	162.6	53.9
1952	81.7	96.4	60.9	85.8	95.2	84.7	134.1	63.2
1953	93.9	104.5	64.8	92.6	101.4	89.8	144.8	62.0
1954	73.4	87.2	66.4	81.0	90.6	84.1	110.5	76.1
1955	90.2	100.7	68.5	91.0	99.0	89.6	131.6	68.1
1956	89.0	102.4	73.4	93.7	95.0	87.0	121.3	71.7
1957	89.8	98.9	77.5	92.5	97.1	90.8	115.9	78.4
1958	68.2	81.6	80.9	81.4	83.8	83.6	84.2	99.2
1959	75.4	88.3	80.9	86.1	87.5	85.3	93.1	91.6
1960	74.4	88.9	83.6	87.3	85.2	83.7	89.0	94.1
1961	70.2	83.6	85.1	84.1	83.5	83.9	82.5	101.8
1962	74.9	86.7	85.5	86.3	86.8	86.4	87.6	98.6
1963	80.4	88.8	86.6	88.2	91.2	90.6	92.9	97.5
1964	90.9	95.3	88.5	93.3	97.5	95.4	102.7	92.9
1965	98.8	101.5	91.3	98.4	100.4	97.4	108.3	90.0
1966	105.3	104.8	95.8	102.1	103.1	100.5	109.9	91.4
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	99.5	100.7	103.2	100.4	99.1	98.8	96.5	102.5
1969	98.6	104.6	105.9	104.0	94.8	94.2	93.1	101.2
1970	90.2	97.7	109.0	99.5	90.6	92.3	82.8	111.6
1971	85.3	90.1	109.4	94.0	90.8	94.7	78.0	121.4
1972	92.9	93.3	110.1	96.5	96.3	99.6	84.4	118.0
1973	106.8	102.2	109.8	103.1	103.7	104.6	97.3	107.5
1974	106.4	102.9	111.8	104.1	102.2	103.5	95.2	108.7
1975	85.3	87.5	114.6	93.3	91.5	97.6	74.5	131.0
1976	85.4	90.5	116.6	96.0	88.9	94.3	73.2	128.8
1977	84.8	93.6	118.1	98.7	85.9	90.6	71.8	126.1
1978	88.5	97.1	118.4	101.4	87.2	91.1	74.7	121.9

TABLE VI. MANUFACTURING INDUSTRIES

15. Fabricated Metals

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	45.4	66.3	36.0	59.7	76.0	68.4	125.9	54.3
1949	41.5	58.2	36.7	53.5	77.6	71.4	113.3	63.0
1950	49.5	67.6	40.3	61.6	80.3	73.2	122.9	59.6
1951	54.0	75.5	45.9	69.1	78.1	71.5	117.5	60.8
1952	57.6	76.2	48.8	70.3	82.0	75.6	118.0	64.0
1953	63.5	83.7	54.8	77.4	82.0	75.9	115.9	65.4
1954	58.3	74.5	53.6	70.0	83.3	78.3	108.8	71.9
1955	62.3	79.3	60.0	75.2	82.8	78.5	103.7	75.7
1956	63.3	79.7	63.4	76.3	83.0	79.4	99.8	79.6
1957	64.6	80.6	69.9	78.4	82.4	80.2	92.5	86.7
1958	58.8	72.7	68.6	72.0	81.6	80.8	85.7	94.4
1959	65.3	77.6	71.6	76.5	85.4	84.2	91.3	92.2
1960	65.9	77.6	73.1	76.7	85.9	85.0	90.2	94.2
1961	65.6	74.5	74.1	74.4	88.2	88.1	88.6	99.4
1962	72.0	79.1	76.2	78.6	91.6	91.0	94.5	96.3
1963	74.6	81.7	79.2	81.2	91.8	91.3	94.1	97.0
1964	79.7	84.0	82.9	83.8	95.1	94.9	96.1	98.7
1965	87.7	89.9	88.5	89.6	97.9	97.7	99.1	98.5
1966	96.4	97.7	92.7	96.8	99.6	98.6	104.0	94.9
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	105.9	104.0	104.9	104.6	101.3	101.8	101.0	100.9
1969	109.8	107.4	108.9	108.1	101.5	102.2	100.8	101.4
1970	97.8	98.1	112.6	101.2	96.7	99.7	86.9	114.8
1971	94.5	92.5	113.6	96.8	97.6	102.1	83.1	122.8
1972	105.4	98.4	115.9	102.1	103.2	107.1	90.9	117.8
1973	115.7	106.1	122.9	109.7	105.5	109.0	94.1	115.8
1974	104.1	103.3	128.4	108.4	96.0	100.8	81.0	124.4
1975	94.5	90.6	128.1	98.0	96.5	104.3	73.8	141.4
1976	105.1	95.7	131.1	102.7	102.3	109.8	80.2	136.9
1977	114.7	100.1	134.8	106.9	107.3	114.7	85.1	134.7
1978	118.4	104.7	140.7	111.9	105.8	113.0	84.1	134.4

TABLE VI. MANUFACTURING INDUSTRIES

16. Machinery, except Electrical

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	50.8	68.3	47.1	63.6	79.9	74.3	107.8	68.9
1949	45.2	56.6	45.1	54.0	83.6	79.8	100.2	79.6
1950	47.8	61.2	47.2	58.1	82.2	78.0	101.2	77.1
1951	62.1	76.2	53.7	71.1	87.3	81.5	115.7	70.4
1952	68.2	78.4	56.4	73.4	92.8	87.0	120.9	71.9
1953	66.6	79.2	58.7	74.6	89.4	84.2	113.5	74.2
1954	59.6	69.4	59.8	67.2	88.7	85.9	99.7	86.2
1955	60.9	73.1	62.4	70.7	86.2	83.3	97.7	85.3
1956	67.4	79.7	67.3	76.9	87.7	84.6	100.2	84.4
1957	63.6	78.1	70.5	76.4	83.2	81.4	90.2	90.2
1958	53.7	65.2	68.8	66.0	81.4	82.3	78.0	105.6
1959	62.1	72.4	69.6	71.7	86.6	85.8	89.2	96.2
1960	62.6	72.8	69.7	72.1	86.8	85.9	89.8	95.7
1961	62.1	69.9	70.7	70.1	88.6	88.9	87.9	101.1
1962	69.5	74.7	74.3	74.6	93.1	93.0	93.6	99.4
1963	72.2	77.1	76.3	76.9	93.9	93.7	94.7	99.0
1964	80.8	81.9	80.6	81.6	99.1	98.7	100.3	98.4
1965	88.8	89.6	86.0	88.8	100.0	99.1	103.3	95.9
1966	98.9	100.1	94.2	98.7	100.2	98.9	105.0	94.2
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	99.9	98.0	104.3	99.7	100.2	101.9	95.8	106.4
1969	104.5	102.6	111.5	104.9	99.6	101.9	93.7	108.7
1970	102.7	97.2	116.1	101.7	100.9	105.6	88.4	119.4
1971	96.8	87.9	116.8	94.6	102.3	110.1	82.9	132.8
1972	108.3	94.7	120.3	100.7	107.5	114.3	90.0	127.1
1973	122.4	106.3	130.0	111.8	109.4	115.2	94.2	122.3
1974	118.1	110.4	138.0	116.9	101.1	107.0	85.6	125.0
1975	114.5	100.1	137.3	108.6	105.4	114.4	83.4	137.2
1976	118.9	101.4	139.4	110.2	107.9	117.2	85.3	137.4
1977	125.7	107.3	145.1	116.0	108.3	117.1	86.6	135.2
1978	134.3	116.4	154.0	125.1	107.3	115.3	87.2	132.3

TABLE VI. MANUFACTURING INDUSTRIES

17. Electrical Machinery

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	23.4	50.7	43.0	49.1	47.6	46.1	54.3	84.9
1949	21.5	43.4	41.6	43.0	50.0	49.5	51.6	95.8
1950	26.1	52.0	42.5	50.0	52.2	50.2	61.4	81.8
1951	31.1	58.9	47.2	56.5	55.0	52.8	65.8	80.2
1952	38.0	63.4	51.4	61.0	62.4	60.0	74.0	81.1
1953	39.5	70.9	52.4	67.2	58.8	55.7	75.3	73.9
1954	35.4	61.4	49.7	59.0	60.0	57.7	71.3	80.8
1955	38.1	65.2	50.9	62.3	61.1	58.4	74.7	78.1
1956	41.4	69.5	55.4	66.6	62.1	59.5	74.8	79.6
1957	43.0	69.4	53.0	66.1	65.0	61.9	81.2	76.3
1958	40.5	63.8	52.7	61.5	65.8	63.4	76.8	82.6
1959	48.4	72.8	56.6	69.5	69.7	66.5	85.6	77.7
1960	51.1	74.9	59.3	71.7	71.2	68.2	86.2	79.1
1961	53.7	75.7	63.1	73.1	73.4	70.9	85.1	83.3
1962	60.7	81.1	68.5	78.5	77.3	74.8	88.5	84.5
1963	66.1	79.7	71.1	77.9	84.7	82.9	92.9	89.2
1964	69.8	79.5	74.5	78.5	88.9	87.7	93.7	93.6
1965	82.7	86.4	81.3	85.4	96.9	95.7	101.8	94.1
1966	96.5	99.6	93.0	98.2	98.2	96.9	103.7	93.4
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	105.5	101.1	105.8	103.2	102.3	104.3	99.8	104.6
1969	113.2	103.5	112.8	106.5	106.3	109.4	100.4	109.1
1970	106.9	97.0	116.3	101.8	105.0	110.2	91.9	119.9
1971	107.6	90.7	116.5	96.7	111.3	118.6	92.4	128.4
1972	121.3	95.5	119.8	101.2	119.8	127.0	101.2	125.5
1973	136.0	103.7	130.0	109.9	123.7	131.1	104.6	125.4
1974	130.9	101.9	133.7	109.1	120.0	128.5	98.0	131.1
1975	118.0	87.6	129.2	96.5	122.3	134.7	91.3	147.5
1976	127.5	92.5	132.5	101.2	126.1	137.9	96.2	143.3
1977	140.9	98.4	138.7	107.2	131.5	143.2	101.6	140.9
1978	152.5	103.4	145.3	112.6	135.5	147.5	105.0	140.5

TABLE VI. MANUFACTURING INDUSTRIES

18. Transportation Equipment

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	32.1	58.3	44.4	54.6	58.8	55.1	72.4	76.2
1949	32.6	55.8	42.0	52.2	62.4	58.4	77.6	75.2
1950	43.1	61.0	44.0	56.6	76.1	70.5	97.9	72.0
1951	47.2	73.4	53.3	68.2	69.2	64.2	88.4	72.6
1952	53.8	85.4	56.2	77.7	69.3	63.0	95.7	65.8
1953	65.7	98.8	60.0	88.5	74.3	66.5	109.5	60.8
1954	60.3	85.7	62.1	79.5	75.8	70.3	97.1	72.4
1955	71.3	93.1	65.3	85.8	83.1	76.6	109.1	70.2
1956	61.1	91.0	70.5	85.7	71.3	67.1	86.7	77.4
1957	65.3	92.4	72.7	87.3	74.8	70.7	89.3	78.7
1958	54.0	76.8	70.2	75.3	71.7	70.2	76.9	91.3
1959	60.0	82.0	71.0	79.2	75.7	73.2	84.6	86.5
1960	61.7	79.8	69.7	77.3	79.8	77.3	88.4	87.4
1961	58.0	75.0	70.1	73.7	78.7	77.4	82.9	93.5
1962	68.9	83.1	72.7	80.5	85.6	82.9	94.7	87.6
1963	77.8	86.3	75.9	83.7	93.0	90.2	102.5	88.0
1964	82.0	85.7	79.5	84.1	97.5	95.7	103.2	92.7
1965	93.4	93.4	84.2	91.1	102.6	100.1	111.0	90.1
1966	100.9	101.6	92.7	99.4	101.6	99.4	108.9	91.2
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	112.6	105.6	106.1	104.7	107.5	106.6	106.1	100.5
1969	107.7	103.5	111.7	104.5	103.1	104.1	96.4	108.0
1970	87.8	86.8	109.9	91.6	95.9	101.2	80.0	126.6
1971	98.6	83.3	108.1	88.6	111.3	118.4	91.2	129.7
1972	106.2	86.9	112.6	92.4	115.0	122.3	94.3	129.6
1973	113.9	94.5	117.8	99.3	114.7	120.6	96.7	124.6
1974	96.9	88.1	120.2	95.2	101.9	110.0	80.7	136.4
1975	92.8	80.5	119.6	89.4	103.9	115.4	77.6	148.6
1976	112.8	87.1	120.6	94.5	119.3	129.4	93.5	138.4
1977	129.0	92.2	124.5	99.3	129.9	139.9	103.6	135.0
1978	136.6	95.8	130.7	103.5	132.0	142.6	104.5	136.4

TABLE VI. MANUFACTURING INDUSTRIES

19. Instruments

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	29.2	56.4	36.3	52.2	55.9	51.8	80.5	64.3
1949	28.4	50.7	44.9	49.3	57.6	56.1	63.3	88.6
1950	33.4	55.4	47.9	53.7	62.3	60.3	69.8	86.4
1951	40.9	67.6	53.8	64.6	63.3	60.5	75.9	79.6
1952	47.1	74.4	55.7	70.4	66.9	63.3	84.6	74.8
1953	51.2	80.8	57.3	75.8	67.6	63.4	89.4	70.9
1954	50.4	72.2	57.6	69.0	73.0	69.8	87.4	79.8
1955	53.5	73.7	61.1	70.9	75.5	72.6	87.6	82.9
1956	56.7	77.0	66.4	74.6	76.0	73.6	85.4	86.2
1957	54.9	76.9	68.4	74.9	73.4	71.4	80.3	88.9
1958	54.5	71.4	69.4	70.7	77.1	76.3	78.5	97.2
1959	61.6	78.4	72.6	76.9	80.1	78.6	84.9	92.5
1960	63.1	79.7	74.3	78.3	80.6	79.1	84.9	93.1
1961	62.1	78.9	76.7	78.3	79.3	78.7	81.0	97.3
1962	68.3	81.7	80.4	81.3	83.9	83.6	84.9	98.4
1963	72.7	81.5	81.5	81.5	89.2	89.1	89.2	99.9
1964	73.7	81.9	79.5	81.3	90.6	89.9	92.7	97.1
1965	85.1	86.8	83.6	86.0	99.0	98.0	101.8	96.3
1966	98.1	97.4	91.5	95.9	102.3	100.7	107.2	94.0
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	107.3	100.4	107.6	100.6	106.7	106.9	99.7	107.2
1969	119.3	104.3	109.1	103.8	115.0	114.4	109.4	104.5
1970	106.8	99.0	111.9	101.1	105.7	107.9	95.4	113.1
1971	104.6	92.2	109.3	95.7	109.3	113.4	95.7	118.5
1972	116.4	97.8	114.1	100.9	115.3	119.1	102.0	116.7
1973	128.0	106.4	127.1	110.8	115.6	120.3	100.8	119.4
1974	121.1	111.6	134.5	116.5	103.9	108.5	90.0	120.5
1975	124.5	101.3	130.6	108.4	114.8	122.9	95.3	128.9
1976	134.5	108.2	133.5	113.9	118.1	124.4	100.7	123.5
1977	140.7	116.5	138.5	121.1	116.2	120.7	101.6	118.9
1978	147.7	124.6	144.2	128.2	115.2	118.6	102.4	115.8

TABLE VI. MANUFACTURING INDUSTRIES

20. Miscellaneous Manufactures

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948	59.9	102.6	33.2	86.8	69.0	58.4	180.4	32.4
1949	53.8	91.6	34.4	78.6	68.5	58.7	156.3	37.6
1950	61.1	97.6	41.1	84.7	72.1	62.6	148.7	42.1
1951	64.1	98.4	52.3	87.9	72.9	65.1	122.6	53.1
1952	65.7	96.1	61.1	88.1	74.5	68.3	107.5	63.6
1953	68.1	101.9	59.3	92.2	73.9	66.8	114.8	58.2
1954	65.4	92.8	73.4	88.4	74.0	70.5	89.0	79.2
1955	72.4	95.6	72.0	90.2	80.3	75.8	100.7	75.3
1956	72.9	96.2	81.5	92.9	78.4	75.7	89.4	84.6
1957	71.7	92.0	84.3	90.3	79.4	77.9	85.0	91.7
1958	70.5	87.9	86.6	87.6	80.5	80.2	81.4	98.6
1959	79.2	92.5	91.0	92.2	85.9	85.6	87.0	98.4
1960	77.7	91.7	91.7	91.7	84.8	84.8	84.8	100.0
1961	79.3	89.6	83.9	88.3	89.8	88.5	94.5	93.7
1962	82.9	92.4	80.9	89.9	92.3	89.8	102.4	87.6
1963	84.3	90.7	81.0	88.6	95.2	92.9	104.:	89.3
1964	87.2	92.3	79.9	89.6	97.3	94.5	109.1	86.6
1965	92.4	99.0	79.2	94.7	97.6	93.3	116.6	80.0
1966	99.3	104.4	87.8	100.8	98.6	95.1	113.2	84.1
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	106.2	99.9	105.6	100.6	105.6	106.3	100.5	105.7
1969	110.8	100.9	104.9	101.2	109.5	109.8	105.7	103.9
1970	107.2	97.2	108.2	98.7	108.6	110.3	99.1	111.3
1971	112.2	94.6	109.7	96.8	116.0	118.7	102.3	116.0
1972	125.3	101.0	104.0	101.1	123.9	124.1	120.5	103.0
1973	128.8	104.1	104.6	103.8	124.1	123.7	123.2	100.5
1974	119.9	102.9	105.5	103.0	116.5	116.5	113.7	102.5
1975	121.4	94.2	94.1	93.8	129.4	128.9	129.0	99.9
1976	129.5	98.5	98.9	98.2	131.9	131.5	130.9	100.4
1977	150.8	102.2	98.3	101.1	149.1	147.5	153.4	96.2
1978	157.0	107.5	102.3	106.2	147.9	146.1	153.5	95.1

TABLE VII. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

1. Private Domestic Business Economy

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948 I	48.2	91.3	61.0	82.1	58.7	52.8	78.9	66.9
1948 II	49.1	90.8	61.7	81.9	60.0	54.1	79.6	68.0
1948 III	49.0	91.8	62.4	82.9	59.1	53.3	78.4	68.0
1948 IV	49.6	91.4	63.2	82.8	59.9	54.3	78.5	69.1
1949 I	48.4	90.0	62.8	81.8	59.2	53.8	77.2	69.7
1949 II	48.0	89.2	63.4	81.4	59.0	53.8	75.7	71.1
1949 III	48.3	87.7	63.9	80.5	60.0	55.1	75.6	72.8
1949 IV	47.7	86.3	64.4	79.8	59.8	55.2	74.0	74.6
1950 I	49.9	86.5	64.6	80.0	62.5	57.7	77.3	74.7
1950 II	51.9	88.6	65.3	81.5	63.6	58.6	79.5	73.7
1950 III	54.0	90.6	66.0	83.2	64.8	59.5	81.8	72.8
1950 IV	54.8	91.4	66.7	83.9	65.3	60.0	82.2	73.0
1951 I	55.0	92.2	67.2	84.7	65.0	59.6	81.9	72.8
1951 II	55.5	92.5	67.8	85.0	65.3	60.0	81.8	73.4
1951 III	56.3	91.4	68.5	84.5	66.7	61.7	82.3	74.9
1951 IV	56.7	91.8	69.1	85.0	66.7	61.8	82.0	75.3
1952 I	57.1	92.3	69.2	85.4	66.8	61.8	82.4	75.0
1952 II	57.2	91.0	69.8	84.7	67.5	62.8	82.0	76.7
1952 III	57.5	91.2	70.2	84.9	67.7	63.0	82.0	76.9
1952 IV	59.1	93.6	70.7	86.7	68.1	63.1	83.6	75.5
1953 I	60.3	94.1	70.6	87.1	69.3	64.1	85.4	75.0
1953 II	60.9	93.7	71.1	86.9	70.0	64.9	85.6	75.8
1953 III	60.5	92.8	71.5	86.5	69.9	65.1	84.5	77.1
1953 IV	59.5	91.3	72.0	85.6	69.6	65.2	82.6	78.9
1954 I	58.9	90.9	72.1	85.3	69.1	64.8	81.7	79.4
1954 II	58.6	89.6	72.4	84.5	69.4	65.5	81.0	80.8
1954 III	59.6	89.2	72.8	84.4	70.6	66.8	81.8	81.6
1954 IV	60.9	90.0	73.2	85.0	71.6	67.7	83.2	81.4
1955 I	62.7	91.4	73.8	86.2	72.7	68.5	84.9	80.8
1955 II	64.1	92.5	74.3	87.1	73.6	69.3	86.3	80.4
1955 III	65.0	93.9	74.9	88.3	73.6	69.2	86.8	79.7
1955 IV	65.8	95.2	75.5	89.4	73.6	69.1	87.2	79.3
1956 I	66.0	94.6	75.9	89.1	74.0	69.7	86.9	80.2
1956 II	66.4	95.1	76.5	89.6	74.1	69.8	86.8	80.5
1956 III	66.2	94.7	77.1	89.5	74.0	69.9	85.9	81.4
1956 IV	67.1	94.4	77.6	89.5	75.0	71.1	86.5	82.2

TABLE VII. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

1. Private Domestic Business Economy

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1957 I	67.7	94.2	78.1	89.5	75.6	71.9	86.7	82.9
1957 II	67.7	93.7	78.7	89.3	75.8	72.2	86.1	84.0
1957 III	67.7	93.8	79.1	89.5	75.6	72.2	85.6	84.4
1957 IV	66.8	91.7	79.7	88.3	75.6	72.8	83.7	86.9
1958 I	65.2	89.1	79.9	86.6	75.3	73.2	81.7	89.6
1958 II	65.0	88.1	80.3	86.0	75.6	73.8	80.9	91.2
1958 III	66.4	88.9	80.7	86.7	76.6	74.7	82.3	90.8
1958 IV	68.7	90.3	81.1	87.7	78.3	76.1	84.7	89.8
1959 I	70.3	91.5	81.6	88.7	79.2	76.9	86.2	89.2
1959 II	72.2	93.7	81.9	90.3	79.9	77.1	88.1	87.5
1959 III	71.0	92.8	82.2	89.8	79.1	76.5	86.4	88.6
1959 IV	71.4	92.6	82.7	89.8	79.5	77.1	86.3	89.3
1960 I	73.3	92.6	83.2	90.0	81.5	79.2	88.2	89.9
1960 II	72.9	93.2	83.5	90.5	80.6	78.3	87.4	89.6
1960 III	72.6	93.2	83.8	90.6	80.1	77.8	86.6	89.9
1960 IV	71.7	92.0	84.1	89.9	79.7	77.9	85.3	91.4
1961 I	72.0	91.4	84.3	89.5	80.4	78.7	85.4	92.3
1961 II	73.2	90.5	84.7	89.1	82.2	80.9	86.4	93.6
1961 III	74.2	91.2	85.1	89.7	82.7	81.4	87.2	93.3
1961 IV	76.2	91.9	85.4	90.3	84.5	83.0	89.2	93.0
1962 I	77.4	92.8	85.9	91.0	85.0	83.4	90.1	92.6
1962 II	78.3	93.3	86.4	91.5	85.6	84.0	90.7	92.6
1962 III	79.0	92.8	86.8	91.3	86.5	85.2	91.0	93.6
1962 IV	79.5	92.1	87.3	91.0	87.4	86.3	91.1	94.8
1963 I	80.3	92.7	87.7	91.6	87.7	86.6	91.5	94.7
1963 II	81.7	93.3	88.2	92.1	88.7	87.6	92.6	94.6
1963 III	82.8	93.3	88.7	92.3	89.7	88.7	93.3	95.0
1963 IV	83.5	93.7	89.1	92.7	90.1	89.1	93.7	95.2
1964 I	84.9	93.6	89.5	92.7	91.5	90.7	94.8	95.7
1964 II	86.1	94.6	90.0	93.6	92.0	91.0	95.6	95.2
1964 III	87.4	94.9	90.7	94.0	93.0	92.1	96.4	95.5
1964 IV	88.4	95.5	91.3	94.7	93.4	92.5	96.8	95.6
1965 I	90.5	96.6	91.8	95.5	94.7	93.7	98.5	95.1
1965 II	92.0	97.8	92.5	96.6	95.2	94.0	99.5	94.6
1965 III	93.1	97.5	93.2	96.6	96.4	95.6	100.0	95.6
1965 IV	95.4	98.5	93.9	97.5	97.8	96.8	101.6	95.3

TABLE VII. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

1. Private Domestic Business Economy

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1966 I	97.0	99.4	94.4	98.3	98.7	97.6	102.7	95.0
1966 II	97.5	99.9	95.3	98.9	98.6	97.6	102.3	95.4
1966 III	98.3	100.2	96.2	99.4	98.9	98.1	102.2	96.0
1966 IV	98.7	100.1	97.1	99.6	99.1	98.6	101.6	97.1
1967 I	98.5	99.9	97.7	99.7	98.8	98.6	100.7	97.8
1967 II	99.4	99.1	98.4	99.3	100.1	100.3	101.0	99.3
1967 III	100.5	99.8	99.2	99.9	100.5	100.6	101.3	99.4
1967 IV	101.6	100.3	100.0	100.4	101.2	101.3	101.6	99.7
1968 I	103.1	100.5	100.6	100.7	102.3	102.5	102.4	100.1
1968 II	104.6	101.3	101.4	101.5	103.0	103.3	103.1	100.2
1968 III	106.3	102.0	102.2	102.2	104.0	104.3	104.0	100.2
1968 IV	107.0	102.6	103.0	102.9	103.9	104.3	103.9	100.4
1969 I	107.9	104.3	103.8	104.3	103.5	103.5	104.0	99.5
1969 II	109.1	104.5	104.7	104.7	104.1	104.4	104.1	100.3
1969 III	109.2	104.9	105.6	105.3	103.7	104.1	103.3	100.7
1969 IV	108.7	104.4	106.5	105.2	103.3	104.1	102.0	102.0
1970 I	107.9	104.2	107.1	105.3	102.5	103.6	100.8	102.8
1970 II	107.9	103.3	107.8	104.9	102.8	104.4	100.0	104.4
1970 III	108.7	102.3	108.6	104.5	104.0	106.3	100.1	106.2
1970 IV	107.3	101.5	109.2	104.1	103.1	105.8	98.3	107.7
1971 I	109.7	101.8	109.7	104.5	105.0	107.8	100.0	107.8
1971 II	110.2	102.2	110.5	105.1	104.9	107.8	99.7	108.1
1971 III	111.4	101.6	111.2	104.9	106.2	109.6	100.2	109.4
1971 IV	112.6	103.0	111.9	106.0	106.1	109.3	100.6	108.6
1972 I	115.4	104.2	112.3	107.0	107.9	110.7	102.8	107.7
1972 II	117.4	104.9	113.0	107.7	109.0	112.0	103.9	107.8
1972 III	118.8	105.5	114.0	108.4	109.6	112.7	104.3	108.1
1972 IV	121.4	106.5	114.8	109.4	111.0	114.0	105.7	107.8
1973 I	124.9	108.0	115.5	110.6	112.9	115.6	108.1	107.0
1973 II	125.0	109.1	116.4	111.7	112.0	114.6	107.4	106.7
1973 III	125.3	109.8	117.4	112.4	111.4	114.1	106.7	106.9
1973 IV	125.9	110.5	118.4	113.2	111.2	113.9	106.3	107.2
1974 I	124.3	110.9	118.9	113.7	109.3	112.0	104.5	107.2
1974 II	124.0	110.8	119.7	113.8	109.0	112.0	103.6	108.1
1974 III	122.6	110.3	120.5	113.8	107.8	111.2	101.7	109.3
1974 IV	120.0	108.6	121.2	112.9	106.3	110.4	99.0	111.6

TABLE VII. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

1. Private Domestic Business Economy

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1975 I	116.7	105.2	121.2	110.5	105.6	111.0	96.3	115.3
1975 II	119.4	104.1	121.4	109.9	108.7	114.7	98.4	116.6
1975 III	122.8	105.3	121.7	110.8	110.9	116.6	100.9	115.6
1975 IV	123.7	106.7	122.1	111.9	110.6	115.9	101.3	114.4
1976 I	127.4	107.9	122.6	112.8	112.9	118.1	103.9	113.6
1976 II	128.0	108.2	123.2	113.2	113.0	118.3	103.9	113.9
1976 III	128.8	108.4	123.8	113.5	113.5	118.9	104.1	114.2
1976 IV	129.9	108.9	124.3	114.0	113.9	119.3	104.5	114.1
1977 I	133.2	110.4	124.9	115.2	115.6	120.6	106.7	113.1
1977 II	135.2	112.4	125.5	116.8	115.7	120.2	107.7	111.6
1977 III	137.6	113.0	126.1	117.4	117.2	121.8	109.2	111.6
1977 IV	138.5	114.3	126.6	118.5	116.9	121.2	109.4	110.8
1978 I	139.4	115.4	127.3	119.4	116.7	120.8	109.5	110.3
1978 II	142.9	117.7	128.0	121.2	117.9	121.4	111.6	108.7
1978 III	144.4	118.2	128.8	121.8	118.5	122.1	112.1	108.9
1978 IV	146.6	120.0	129.5	123.3	119.0	122.2	113.2	107.9
1979 I	147.1	121.1	130.3	124.3	118.3	121.4	112.8	107.6
1979 II	145.9	121.0	131.3	124.5	117.2	120.6	111.2	108.5
1979 III	146.4	121.7	132.0	125.2	116.9	120.3	110.9	108.5
1979 IV	147.4	122.6	132.8	126.1	116.9	120.2	111.0	108.3
1980 I	147.8	122.7	133.5	126.4	116.9	120.5	110.7	108.8

TABLE VII. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

2. Nonfinancial Corporate Business

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948 I	42.1	74.3	44.5	66.0	63.8	56.7	94.6	59.9
1948 II	42.7	73.6	45.0	65.7	65.1	58.0	94.9	61.1
1948 III	42.6	74.2	45.4	66.2	64.3	57.3	93.7	61.2
1948 IV	42.9	73.5	45.9	65.9	65.2	58.4	93.5	62.5
1949 I	41.8	71.7	46.3	64.7	64.6	58.3	90.3	64.6
1949 II	40.8	69.8	46.5	63.4	64.3	58.4	87.6	66.7
1949 III	40.9	68.9	46.8	62.8	65.1	59.4	87.4	67.9
1949 IV	39.7	67.8	46.8	62.1	63.9	58.5	84.7	69.1
1950 I	42.1	68.9	47.2	62.9	66.9	61.1	89.2	68.5
1950 II	44.8	71.6	47.5	65.0	68.9	62.6	94.2	66.4
1950 III	47.4	74.6	48.0	67.3	70.5	63.5	98.8	64.3
1950 IV	49.1	76.3	48.7	68.7	71.5	64.3	100.8	63.8
1951 I	49.6	77.5	49.3	69.7	71.1	63.9	100.6	63.6
1951 II	50.0	78.0	50.0	70.3	71.2	64.1	100.0	64.1
1951 III	50.3	77.2	50.7	69.9	71.9	65.1	99.2	65.6
1951 IV	50.6	77.2	51.1	70.0	72.3	65.6	98.9	66.3
1952 I	50.7	78.3	51.7	71.0	71.4	64.8	98.1	66.0
1952 II	50.0	77.4	52.1	70.5	71.0	64.7	96.1	67.3
1952 III	50.4	78.0	52.4	71.0	71.0	64.6	96.1	67.3
1952 IV	53.0	80.5	52.9	72.9	72.7	65.9	100.2	65.8
1953 I	54.3	81.4	53.4	73.7	73.6	66.7	101.7	65.6
1953 II	55.0	81.8	53.9	74.1	74.2	67.2	102.0	65.9
1953 III	54.7	80.7	54.4	73.5	74.4	67.7	100.5	67.4
1953 IV	52.6	79.1	54.7	72.4	72.6	66.5	96.2	69.2
1954 I	52.0	77.2	55.0	71.2	73.1	67.4	94.6	71.2
1954 II	51.8	76.1	55.3	70.5	73.5	68.1	93.8	72.6
1954 III	52.4	75.5	55.6	70.2	74.6	69.4	94.2	73.6
1954 IV	53.9	76.5	56.0	71.0	75.9	70.5	96.4	73.1
1955 I	56.6	78.0	56.4	72.2	78.3	72.5	100.3	72.3
1955 II	58.3	79.7	56.8	73.5	79.3	73.2	102.6	71.4
1955 III	59.0	80.6	57.5	74.4	79.4	73.2	102.7	71.3
1955 IV	59.8	81.7	58.2	75.3	79.4	73.3	102.8	71.3
1956 I	59.8	81.8	58.8	75.6	79.1	73.1	101.6	71.9
1956 II	60.0	81.9	59.5	75.9	79.2	73.4	100.9	72.7
1956 III	59.7	81.2	60.1	75.6	78.9	73.5	99.3	74.0
1956 IV	60.6	82.2	60.7	76.5	79.3	73.7	99.9	73.8

TABLE VII. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

2. Nonfinancial Corporate Business

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1957 I	61.3	82.1	61.2	76.6	80.1	74.7	100.2	74.5
1957 II	61.4	81.5	61.7	76.3	80.5	75.3	99.4	75.7
1957 III	61.1	80.9	62.3	76.0	80.3	75.5	98.1	76.9
1957 IV	59.6	79.0	62.6	74.8	79.7	75.5	95.2	79.3
1958 I	57.0	76.7	62.9	73.2	77.8	74.3	90.7	81.9
1958 II	56.4	75.0	63.0	72.1	78.3	75.2	89.6	84.0
1958 III	58.2	75.9	63.3	72.8	79.9	76.7	92.0	83.4
1958 IV	60.6	77.3	63.6	73.9	82.1	78.4	95.3	82.3
1959 I	63.1	80.0	63.9	75.9	83.2	78.9	98.7	79.9
1959 II	65.6	81.8	64.5	77.3	84.8	80.2	101.7	78.8
1959 III	64.2	81.1	64.8	76.9	83.5	79.2	99.1	79.9
1959 IV	64.7	81.0	65.3	77.0	84.0	79.8	98.9	80.7
1960 I	67.6	83.0	66.0	78.6	85.9	81.4	102.4	79.5
1960 II	67.0	82.7	66.5	78.6	85.3	81.1	100.8	80.4
1960 III	66.0	81.9	66.9	78.1	84.5	80.6	98.6	81.7
1960 IV	65.5	80.3	67.2	77.0	85.0	81.5	97.4	83.7
1961 I	65.6	80.1	67.5	77.0	85.1	81.8	97.1	84.3
1961 II	67.1	80.5	67.9	77.4	86.6	83.3	98.7	84.4
1961 III	68.4	81.4	68.4	78.2	87.5	84.0	100.0	84.0
1961 IV	70.9	82.4	68.8	79.0	89.8	86.1	103.1	83.5
1962 I	72.7	83.5	70.0	80.2	90.7	87.0	103.8	83.9
1962 II	73.7	84.6	71.0	81.2	90.7	87.1	103.7	84.0
1962 III	74.6	84.7	72.0	81.6	91.4	88.0	103.6	85.0
1962 IV	75.5	84.5	72.6	81.6	92.5	89.3	103.9	86.0
1963 I	76.5	85.4	73.4	82.5	92.8	89.6	104.3	85.9
1963 II	78.4	86.2	74.2	83.3	94.1	90.9	105.7	86.1
1963 III	79.8	86.6	75.2	83.9	95.1	92.2	106.1	86.9
1963 IV	80.7	86.9	76.1	84.3	95.7	92.9	106.1	87.5
1964 I	82.6	87.6	76.9	85.1	97.1	94.3	107.3	87.8
1964 II	83.9	88.6	78.0	86.1	97.4	94.7	107.5	88.0
1964 III	85.2	89.2	79.0	86.8	98.1	95.5	107.8	88.6
1964 IV	85.9	90.1	80.2	87.8	97.8	95.4	107.1	89.0
1965 I	89.2	92.2	81.7	89.8	99.4	96.8	109.3	88.6
1965 II	90.6	93.0	82.9	90.7	99.9	97.5	109.3	89.2
1965 III	92.1	93.8	84.5	91.7	100.4	98.2	109.0	90.1
1965 IV	94.8	95.3	85.7	93.1	101.8	99.5	110.6	89.9

TABLE VII. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

2. Nonfinancial Corporate Business

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1966 I	97.0	97.6	87.4	95.3	101.8	99.4	110.9	89.6
1966 II	98.5	98.6	89.5	96.6	102.0	99.9	110.1	90.7
1966 III	99.5	99.2	91.4	97.6	102.0	100.3	108.9	92.2
1966 IV	100.1	99.6	93.9	98.6	101.5	100.5	106.6	94.3
1967 I	100.0	100.0	95.8	99.4	100.6	100.0	104.3	95.8
1967 II	100.4	99.4	97.1	99.2	101.2	101.0	103.4	97.6
1967 III	101.5	99.9	98.5	99.8	101.7	101.6	103.1	98.6
1967 IV	102.8	100.6	100.0	100.7	102.1	102.2	102.8	99.4
1968 I	105.0	101.8	101.2	101.8	103.2	103.2	103.8	99.4
1968 II	107.1	102.8	102.9	103.0	104.0	104.2	104.1	100.1
1968 III	108.9	103.7	104.2	104.0	104.8	105.1	104.6	100.4
1968 IV	110.1	104.3	105.3	104.7	105.2	105.6	104.6	101.0
1969 I	111.7	106.4	106.7	106.6	104.7	105.0	104.7	100.3
1969 II	113.0	107.3	108.3	107.8	104.9	105.3	104.3	101.0
1969 III	113.2	107.9	109.7	108.6	104.2	104.9	103.2	101.6
1969 IV	112.5	107.7	110.8	108.7	103.4	104.4	101.5	102.9
1970 I	112.0	108.4	111.8	109.5	102.3	103.3	100.1	103.2
1970 II	111.7	107.0	112.8	108.7	102.7	104.4	99.0	105.4
1970 III	112.2	105.9	113.6	108.2	103.8	106.0	98.8	107.3
1970 IV	109.6	104.1	114.4	107.0	102.4	105.3	95.8	109.9
1971 I	113.3	105.7	114.9	108.3	104.6	107.2	98.6	108.7
1971 II	114.2	106.0	115.9	108.8	104.9	107.7	98.5	109.4
1971 III	115.1	105.6	116.8	108.8	105.8	109.0	98.5	110.6
1971 IV	116.6	106.8	117.6	109.9	106.1	109.2	99.2	110.1
1972 I	120.8	109.6	118.6	112.2	107.7	110.3	101.9	108.2
1972 II	123.3	110.9	119.9	113.5	108.6	111.2	102.9	108.1
1972 III	125.1	111.4	121.3	114.3	109.5	112.3	103.1	108.9
1972 IV	128.2	113.2	122.1	115.8	110.7	113.3	105.0	107.9
1973 I	132.7	115.6	122.9	117.8	112.7	114.8	108.0	106.3
1973 II	133.5	116.8	123.8	118.9	112.3	114.3	107.8	106.0
1973 III	133.9	117.3	125.1	119.6	112.0	114.2	107.1	106.6
1973 IV	134.1	118.2	126.7	120.7	111.1	113.5	105.8	107.2
1974 I	132.2	118.5	126.8	120.9	109.3	111.5	104.2	107.0
1974 II	130.4	118.1	127.3	120.8	107.9	110.4	102.4	107.8
1974 III	128.0	117.8	127.4	120.6	106.2	108.7	100.5	108.1
1974 IV	124.8	115.3	128.3	119.0	104.9	108.3	97.3	111.3

TABLE VII. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

2. Nonfinancial Corporate Business

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1975 I	121.4	111.2	128.0	115.9	104.8	109.2	94.9	115.1
1975 II	124.1	110.0	127.4	114.8	108.1	112.8	97.4	115.8
1975 III	128.6	111.4	127.5	115.9	111.0	115.4	100.9	114.4
1975 IV	130.2	112.9	127.4	117.0	111.3	115.3	102.2	112.8
1976 I	134.1	115.1	128.4	118.9	112.8	116.5	104.4	111.6
1976 II	135.2	115.7	129.6	119.6	113.0	116.8	104.3	112.0
1976 III	136.0	116.0	130.4	120.0	113.3	117.2	104.3	112.4
1976 IV	136.3	116.6	130.9	120.6	113.0	116.9	104.2	112.2
1977 I	140.0	118.5	132.2	122.4	114.4	118.1	105.9	111.6
1977 II	142.0	120.5	133.9	124.3	114.3	117.9	106.0	111.1
1977 III	144.3	121.5	135.7	125.5	115.0	118.8	106.3	111.7
1977 IV	145.1	122.9	136.8	126.8	114.4	118.1	106.1	111.3
1978 I	146.4	123.8	138.0	127.8	114.6	118.3	106.1	111.5
1978 II	151.5	126.8	139.7	130.5	116.1	119.5	108.4	110.2
1978 III	153.2	127.6	140.9	131.4	116.6	120.0	108.7	110.4
1978 IV	156.0	129.6	141.8	133.1	117.2	120.4	110.0	109.4
1979 I	156.9	131.1	142.6	134.4	116.8	119.7	110.0	108.8
1979 II	155.9	131.1	144.4	134.9	115.6	118.9	108.0	110.2
1979 III	156.1	131.4	144.8	135.2	115.5	118.8	107.8	110.2
1979 IV	156.9	132.2	144.8	135.8	115.5	118.7	108.3	109.6
1980 I	157.1	132.6	145.0	136.1	115.4	118.5	108.4	109.3

TABLE VII. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

3. Farming

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948 I	84.1	232.3	75.8	168.5	49.9	36.2	110.9	32.6
1948 II	93.9	228.9	76.9	167.0	56.2	41.0	122.1	33.6
1948 III	90.1	235.4	78.6	171.5	52.6	38.3	114.7	33.4
1948 IV	97.6	237.6	80.3	173.6	56.2	41.1	121.5	33.8
1949 I	87.2	234.9	76.6	170.4	51.2	37.1	113.9	32.6
1949 II	88.5	242.2	78.2	175.3	50.5	36.6	113.2	32.3
1949 III	90.7	231.4	79.4	169.6	53.5	39.2	114.2	34.3
1949 IV	92.6	217.9	80.8	162.4	57.0	42.5	114.5	37.1
1950 I	98.0	214.5	78.4	159.4	61.5	45.7	124.9	36.6
1950 II	94.1	216.0	80.1	160.9	58.5	43.6	117.5	37.1
1950 III	92.5	212.9	81.8	159.9	57.8	43.4	113.0	38.4
1950 IV	94.3	213.4	83.1	160.8	58.7	44.2	113.5	39.0
1951 I	84.2	207.0	81.3	156.3	53.9	40.7	103.5	39.3
1951 II	88.3	201.8	82.3	153.7	57.5	43.8	107.3	40.8
1951 III	95.3	199.5	83.5	152.9	62.3	47.8	114.1	41.8
1951 IV	92.5	203.4	84.6	155.7	59.4	45.5	109.4	41.6
1952 I	89.5	202.4	83.0	154.4	58.0	44.2	107.8	41.0
1952 II	93.0	191.5	84.3	148.6	62.5	48.6	110.3	44.0
1952 III	97.6	188.5	84.8	147.1	66.3	51.8	115.0	45.0
1952 IV	89.4	189.8	86.1	148.5	60.2	47.1	103.9	45.3
1953 I	95.1	185.6	84.3	145.3	65.5	51.2	112.8	45.4
1953 II	97.0	178.3	85.0	141.3	68.6	54.4	114.2	47.7
1953 III	96.1	177.9	85.9	141.5	68.0	54.0	111.9	48.3
1953 IV	99.5	172.5	86.7	138.7	71.8	57.7	114.8	50.2
1954 I	97.5	181.5	85.6	143.4	68.0	53.7	114.0	47.1
1954 II	95.1	173.0	85.9	138.7	68.6	55.0	110.8	49.6
1954 III	102.0	172.8	86.6	138.9	73.4	59.0	117.7	50.1
1954 IV	102.6	166.7	87.5	135.7	75.6	61.6	117.3	52.5
1955 I	99.8	170.7	88.7	138.6	72.0	58.5	112.6	51.9
1955 II	100.9	171.5	89.3	139.3	72.5	58.9	113.0	52.1
1955 III	102.9	181.1	89.7	145.0	70.9	56.8	114.7	49.5
1955 IV	106.0	182.2	90.1	145.8	72.7	58.2	117.7	49.4
1956 I	104.5	168.9	89.8	138.1	75.7	61.9	116.3	53.2
1956 II	96.4	171.9	89.8	139.8	69.0	56.1	107.4	52.2
1956 III	100.3	171.4	90.3	139.7	71.8	58.5	111.1	52.7
1956 IV	102.2	159.2	90.6	132.8	77.0	64.2	112.8	56.9

TABLE VII. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

3. Farming

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1957 I	99.7	156.9	91.2	131.7	75.7	63.6	109.4	58.1
1957 II	98.5	152.5	90.9	129.0	76.3	64.6	108.4	59.6
1957 III	96.5	157.2	91.2	131.9	73.2	61.4	105.8	58.0
1957 IV	97.6	151.4	91.8	128.8	75.8	64.5	106.3	60.6
1958 I	103.1	141.8	91.5	123.1	83.7	72.7	112.7	64.5
1958 II	101.2	145.6	92.0	125.5	80.6	69.5	110.0	63.2
1958 III	102.4	141.7	92.2	123.4	83.0	72.3	111.1	65.1
1958 IV	104.1	143.6	92.6	124.6	83.5	72.5	112.4	64.5
1959 I	101.9	141.7	93.4	123.9	82.3	71.9	109.1	65.9
1959 II	99.3	151.9	93.8	130.0	76.4	65.3	105.8	61.8
1959 III	95.0	141.1	93.9	123.8	76.8	67.3	101.2	66.6
1959 IV	99.6	139.1	94.4	122.8	81.1	71.6	105.5	67.8
1960 I	99.5	129.2	95.2	117.2	84.9	77.0	104.4	73.7
1960 II	104.1	138.4	95.1	122.7	84.8	75.2	109.5	68.7
1960 III	108.0	144.5	95.2	126.4	85.4	74.7	113.4	65.9
1960 IV	104.6	141.3	95.3	124.5	84.0	74.0	109.7	67.4
1961 I	105.5	140.2	94.6	123.6	85.4	75.2	111.5	67.5
1961 II	103.7	126.5	95.1	115.5	89.8	81.9	109.1	75.1
1961 III	103.4	129.4	95.2	117.3	88.1	79.9	108.6	73.5
1961 IV	104.5	127.7	95.4	116.3	89.9	81.9	109.6	74.7
1962 I	104.8	135.9	94.9	121.1	86.6	77.1	110.4	69.8
1962 II	105.6	127.5	95.3	116.2	90.9	82.8	110.9	74.7
1962 III	103.6	122.9	95.6	113.5	91.3	84.3	108.4	77.8
1962 IV	102.1	122.3	96.1	113.3	90.1	83.5	106.3	78.5
1963 I	106.0	123.8	95.5	114.0	93.0	85.7	111.0	77.2
1963 II	107.3	124.0	96.2	114.4	93.8	86.5	111.5	77.6
1963 III	105.9	120.4	96.6	112.4	94.2	88.0	109.7	80.2
1963 IV	105.3	118.3	96.9	111.3	94.6	89.0	108.6	81.9
1964 I	101.6	110.9	96.0	106.4	95.5	91.7	105.9	86.5
1964 II	102.9	117.7	96.5	110.7	92.9	87.4	106.7	81.9
1964 III	105.6	117.3	97.3	110.8	95.3	90.1	108.6	82.9
1964 IV	105.5	113.1	97.9	108.5	97.3	93.3	107.8	86.6
1965 I	107.2	110.1	98.4	106.9	100.3	97.3	108.9	89.4
1965 II	104.7	116.0	98.4	110.5	94.8	90.3	106.4	84.9
1965 III	109.3	109.9	98.5	106.8	102.4	99.5	111.0	89.7
1965 IV	105.1	111.4	98.6	107.8	97.5	94.3	106.6	88.5

TABLE VII. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

3. Farming

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1966 I	107.1	106.0	98.7	104.5	102.5	101.0	108.6	93.1
1966 II	100.6	102.3	98.9	102.3	98.3	98.4	101.8	96.7
1966 III	96.4	98.8	98.9	100.3	96.2	97.6	97.5	100.1
1966 IV	98.0	99.1	99.1	100.5	97.5	98.9	98.9	100.0
1967 I	103.0	99.8	99.3	101.0	102.0	103.2	103.7	99.5
1967 II	102.6	93.9	99.5	98.7	104.0	109.3	103.1	106.0
1967 III	106.1	99.1	99.8	102.8	103.3	107.1	106.4	100.6
1967 IV	108.4	98.6	100.0	103.2	105.0	109.9	108.4	101.4
1968 I	105.3	97.6	100.1	103.1	102.2	108.0	105.2	102.6
1968 II	99.9	96.3	100.3	102.4	97.5	103.7	99.5	104.2
1968 III	105.0	94.9	100.5	101.6	103.3	110.6	104.5	105.9
1968 IV	106.6	94.6	100.7	101.5	105.0	112.7	105.8	106.6
1969 I	111.7	103.3	101.0	107.1	104.3	108.1	110.6	97.8
1969 II	104.7	92.5	101.1	100.4	104.3	113.2	103.5	109.3
1969 III	105.9	89.5	101.2	98.6	107.4	118.3	104.6	113.1
1969 IV	103.5	86.5	101.3	96.7	107.0	119.7	102.2	117.1
1970 I	106.9	85.6	101.5	96.3	111.0	124.9	105.3	118.6
1970 II	112.3	87.8	101.8	97.6	115.0	127.9	110.4	115.8
1970 III	108.1	84.3	102.0	96.0	112.6	128.3	105.9	121.1
1970 IV	115.5	82.1	102.3	95.0	121.6	140.7	112.9	124.6
1971 I	122.7	81.5	102.7	94.9	129.2	150.4	119.5	125.9
1971 II	115.8	83.8	102.9	96.2	120.4	138.1	112.5	122.8
1971 III	114.7	80.2	103.1	94.5	121.5	143.1	111.3	128.6
1971 IV	118.2	82.5	103.3	95.8	123.5	143.3	114.4	125.2
1972 I	124.8	84.3	103.4	96.7	129.1	148.0	120.7	122.7
1972 II	121.4	81.3	103.5	95.2	127.4	149.3	117.2	127.4
1972 III	102.8	84.6	103.7	97.0	106.0	121.5	99.2	122.6
1972 IV	111.0	83.2	103.8	96.3	115.2	133.4	106.9	124.8
1973 I	119.4	81.4	104.0	95.5	125.0	146.8	114.8	127.8
1973 II	114.8	81.1	104.7	95.7	119.9	141.5	109.7	129.0
1973 III	107.9	81.2	105.2	96.1	112.3	133.0	102.6	129.6
1973 IV	122.9	81.8	106.0	96.8	127.0	150.2	115.9	129.6
1974 I	109.0	88.3	106.5	100.3	108.7	123.5	102.4	120.6
1974 II	120.7	81.5	106.5	96.9	124.6	148.1	113.4	130.6
1974 III	115.7	78.0	106.4	95.1	121.7	148.3	108.7	136.4
1974 IV	117.9	79.9	106.3	96.0	122.9	147.7	110.9	133.2

TABLE VII. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

3. Farming

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1975 I	115.5	78.3	106.5	95.3	121.2	147.5	108.5	135.9
1975 II	123.4	77.6	106.6	95.0	129.9	159.0	115.7	137.4
1975 III	126.0	80.3	106.9	96.5	130.6	156.9	117.9	133.0
1975 IV	122.0	77.5	107.1	95.2	128.2	157.5	113.9	138.2
1976 I	121.5	74.5	107.3	93.8	129.6	163.1	113.2	144.1
1976 II	112.9	76.7	107.6	95.1	118.8	147.3	104.9	140.4
1976 III	113.7	75.1	107.9	94.4	120.5	151.5	105.3	143.8
1976 IV	119.3	73.2	108.2	93.6	127.5	163.1	110.3	147.9
1977 I	117.1	73.9	108.5	94.1	124.5	158.6	107.9	146.9
1977 II	119.7	76.6	108.4	95.4	125.4	156.3	110.4	141.6
1977 III	131.0	72.1	108.2	93.0	140.8	181.7	121.1	150.0
1977 IV	132.5	75.1	108.1	94.5	140.2	176.5	122.5	144.0
1978 I	130.3	76.9	107.9	95.3	136.7	169.4	120.8	140.3
1978 II	124.5	74.7	108.2	94.3	132.0	166.8	115.1	144.9
1978 III	122.3	74.8	108.6	94.6	129.3	163.5	112.6	145.2
1978 IV	121.0	76.5	109.0	95.7	126.5	158.2	111.0	142.5
1979 I	121.7	76.6	109.5	96.0	126.7	158.9	111.1	143.0
1979 II	128.1	71.5	110.0	93.7	136.7	179.1	116.4	153.8
1979 III	127.3	71.3	110.4	93.8	135.7	178.4	115.3	154.8
1979 IV	131.1	77.6	111.2	97.4	134.6	169.0	117.9	143.3
1980 I	131.3	74.1	111.5	95.8	137.0	177.0	117.7	150.4

TABLE VII. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

4. Manufacturing Industry

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948 I	47.0	81.3	52.5	73.8	63.7	57.8	89.6	64.5
1948 II	47.6	80.1	53.2	73.2	65.0	59.4	89.4	66.4
1948 III	48.3	80.2	53.9	73.5	65.8	60.2	89.6	67.2
1948 IV	48.1	79.1	54.6	72.9	66.0	60.8	88.0	69.1
1949 I	46.6	75.9	54.2	70.5	66.1	61.4	85.9	71.4
1949 II	44.9	72.6	54.7	68.2	65.8	61.8	82.1	75.4
1949 III	45.2	72.3	55.1	68.1	66.4	62.5	82.1	76.2
1949 IV	44.1	71.4	55.4	67.6	65.2	61.7	79.5	77.6
1950 I	46.1	73.6	56.1	69.3	66.5	62.7	82.2	76.3
1950 II	50.1	76.9	56.5	71.9	69.7	65.1	88.7	73.4
1950 III	54.4	81.4	56.9	75.2	72.4	66.8	95.6	69.9
1950 IV	55.6	83.7	57.5	77.0	72.2	66.5	96.8	68.7
1951 I	57.6	85.5	59.9	79.0	72.9	67.3	96.1	70.1
1951 II	58.2	86.1	60.6	79.7	73.0	67.5	96.0	70.4
1951 III	56.6	84.4	61.3	78.6	72.0	67.1	92.3	72.6
1951 IV	57.0	84.1	62.0	78.6	72.6	67.8	92.0	73.7
1952 I	58.2	85.3	62.7	79.7	73.0	68.2	92.8	73.5
1952 II	57.3	84.4	63.4	79.2	72.3	67.9	90.4	75.1
1952 III	58.5	85.3	63.9	80.0	73.1	68.6	91.5	75.0
1952 IV	63.0	89.9	64.5	83.5	75.4	70.1	97.6	71.8
1953 I	64.2	91.8	64.9	85.0	75.5	69.9	98.8	70.7
1953 II	64.4	92.4	65.5	85.7	75.2	69.7	98.3	70.9
1953 III	64.0	90.8	66.1	84.6	75.6	70.5	96.8	72.8
1953 IV	60.8	87.4	66.7	82.4	73.8	69.5	91.1	76.4
1954 I	58.6	84.5	67.2	80.5	72.8	69.3	87.1	79.6
1954 II	58.3	82.6	66.9	79.0	73.8	70.6	87.1	81.0
1954 III	58.3	81.5	67.1	78.3	74.5	71.5	86.8	82.4
1954 IV	59.9	82.8	67.7	79.4	75.5	72.3	88.5	81.7
1955 I	62.9	85.0	68.4	81.2	77.4	73.9	91.9	80.4
1955 II	65.4	87.4	69.0	83.1	78.7	74.8	94.7	79.0
1955 III	65.7	87.8	69.7	83.5	78.6	74.8	94.2	79.5
1955 IV	66.6	89.4	70.4	84.9	78.4	74.5	94.6	78.7
1956 I	66.0	89.1	71.1	84.9	77.7	74.0	92.7	79.8
1956 II	65.5	88.6	72.1	84.9	77.2	73.9	90.9	81.3
1956 III	64.2	87.6	72.9	84.4	76.1	73.3	88.0	83.2
1956 IV	66.7	89.4	73.7	85.9	77.6	74.6	90.4	82.5

TABLE VII. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

4. Manufacturing Industry

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1957 I	67.5	89.3	73.8	85.9	78.6	75.6	91.5	82.7
1957 II	66.5	88.2	74.8	85.3	77.9	75.4	88.9	84.8
1957 III	66.5	87.2	75.3	84.8	78.5	76.3	88.4	86.3
1957 IV	63.2	84.6	75.8	83.1	76.1	74.7	83.4	89.5
1958 I	59.1	80.9	75.9	80.4	73.5	73.0	77.9	93.8
1958 II	58.0	78.4	75.8	78.6	73.8	74.0	76.5	96.8
1958 III	60.6	79.8	76.0	79.7	76.1	75.9	79.7	95.3
1958 IV	63.3	81.5	76.3	81.0	78.1	77.6	82.9	93.7
1959 I	66.3	84.4	76.3	83.1	79.9	78.6	86.9	90.4
1959 II	69.4	86.8	77.0	85.0	81.7	80.0	90.2	88.7
1959 III	66.2	85.5	77.1	84.1	78.7	77.4	85.9	90.2
1959 IV	66.2	85.2	77.6	84.0	78.9	77.8	85.3	91.2
1960 I	70.4	87.4	77.9	85.7	82.1	80.5	90.3	89.1
1960 II	68.3	86.2	78.5	85.0	80.3	79.2	87.0	91.0
1960 III	66.8	84.6	78.8	83.9	79.6	78.9	84.8	93.1
1960 IV	64.8	82.1	78.9	82.1	78.9	78.9	82.1	96.1
1961 I	63.6	80.9	79.1	81.3	78.2	78.5	80.3	97.8
1961 II	66.2	82.2	79.5	82.3	80.4	80.5	83.4	96.6
1961 III	68.5	83.2	79.8	83.1	82.3	82.3	85.8	95.9
1961 IV	70.9	84.7	80.2	84.4	84.0	83.6	88.3	94.6
1962 I	71.9	85.3	80.7	84.9	84.6	84.2	89.0	94.7
1962 II	72.7	86.5	81.2	86.0	84.5	84.0	89.5	93.9
1962 III	73.6	86.5	81.8	86.1	85.4	85.0	90.0	94.5
1962 IV	74.6	86.1	82.1	85.9	86.8	86.6	90.8	95.4
1963 I	76.3	86.2	82.4	86.1	88.7	88.6	92.6	95.6
1963 II	78.8	86.8	82.7	86.6	91.1	90.9	95.3	95.3
1963 III	79.6	87.1	83.2	86.9	91.6	91.4	95.6	95.6
1963 IV	81.2	87.3	83.8	87.3	93.0	93.0	96.9	96.0
1964 I	82.4	87.2	84.0	87.3	94.5	94.5	98.2	96.3
1964 II	84.3	88.2	84.4	88.1	95.7	95.6	99.9	95.7
1964 III	85.6	89.0	85.1	88.8	96.4	96.2	100.6	95.7
1964 IV	86.6	89.5	86.1	89.5	96.8	96.8	100.6	96.2
1965 I	89.8	91.8	86.5	91.3	98.3	97.8	103.8	94.3
1965 II	91.5	92.6	87.4	92.1	99.3	98.8	104.8	94.3
1965 III	93.3	93.7	88.4	93.3	100.1	99.6	105.6	94.3
1965 IV	94.8	95.5	89.5	94.9	100.0	99.3	106.0	93.7

TABLE VII. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

4. Manufacturing Industry

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1966 I	97.7	97.6	90.4	96.7	101.0	100.1	108.1	92.6
1966 II	99.6	99.4	91.7	98.3	101.4	100.3	108.7	92.3
1966 III	100.7	100.1	93.3	99.3	101.3	100.5	107.9	93.2
1966 IV	101.2	100.7	95.0	100.2	101.0	100.5	106.5	94.3
1967 I	99.4	99.8	96.5	99.9	99.5	99.6	103.0	96.7
1967 II	98.8	98.7	97.7	99.3	99.4	100.0	101.1	99.0
1967 III	99.2	98.8	98.8	99.6	99.6	100.3	100.4	99.9
1967 IV	101.9	99.6	100.0	100.4	101.5	102.3	101.9	100.4
1968 I	103.7	100.1	100.8	100.8	102.8	103.6	102.9	100.7
1968 II	105.3	100.8	101.8	101.6	103.6	104.5	103.4	101.0
1968 III	105.8	101.5	102.9	102.5	103.3	104.2	102.8	101.4
1968 IV	106.9	102.1	103.9	103.2	103.7	104.7	103.0	101.7
1969 I	108.4	102.6	104.7	103.8	104.5	105.7	103.5	102.1
1969 II	108.4	103.2	105.9	104.5	103.7	105.0	102.4	102.6
1969 III	109.2	103.5	106.9	105.0	104.0	105.5	102.2	103.3
1969 IV	108.0	102.4	107.9	104.5	103.4	105.4	100.2	105.3
1970 I	104.3	101.2	108.6	103.7	100.5	103.1	96.0	107.3
1970 II	103.2	98.7	109.4	102.1	101.1	104.5	94.3	110.3
1970 III	102.4	96.8	109.9	100.8	101.6	105.7	93.2	113.5
1970 IV	99.7	93.3	110.4	98.3	101.4	106.8	90.2	118.4
1971 I	102.2	93.9	110.6	98.8	103.5	108.9	92.4	117.8
1971 II	103.4	93.8	111.2	98.8	104.6	110.2	92.9	118.6
1971 III	103.7	93.1	111.3	98.4	105.4	111.4	93.2	119.5
1971 IV	105.9	94.0	111.5	99.1	106.8	112.6	94.9	118.6
1972 I	108.9	95.5	111.2	100.2	108.7	114.0	97.9	116.5
1972 II	111.8	97.1	111.8	101.5	110.1	115.1	100.0	115.1
1972 III	114.3	97.6	112.9	102.1	111.9	117.1	101.2	115.7
1972 IV	118.9	99.8	113.7	104.0	114.4	119.2	104.6	114.0
1973 I	122.5	101.9	114.4	105.7	115.8	120.2	107.0	112.3
1973 II	123.9	102.9	115.1	106.7	116.2	120.5	107.6	111.9
1973 III	123.6	102.9	116.3	107.0	115.6	120.2	106.3	113.0
1973 IV	121.9	103.9	117.6	108.0	112.8	117.3	103.7	113.2
1974 I	116.2	103.2	118.0	107.7	108.0	112.6	98.5	114.3
1974 II	115.5	102.1	118.9	107.1	107.9	113.1	97.1	116.5
1974 III	116.2	101.7	120.7	107.2	108.3	114.2	96.2	118.7
1974 IV	110.8	98.1	121.6	104.7	105.8	113.0	91.1	124.0

TABLE VII. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

4. Manufacturing Industry

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1975 I	102.3	91.6	121.9	99.9	102.4	111.7	84.0	133.0
1975 II	105.4	90.0	121.7	98.7	106.8	117.1	86.6	135.2
1975 III	112.7	91.3	121.7	99.7	113.1	123.4	92.6	133.3
1975 IV	115.0	93.5	121.8	101.3	113.5	123.0	94.4	130.4
1976 I	117.4	95.8	122.4	103.2	113.7	122.5	95.9	127.7
1976 II	118.6	95.8	123.1	103.4	114.7	123.7	96.3	128.5
1976 III	119.8	96.1	124.0	103.9	115.3	124.6	96.6	129.0
1976 IV	121.0	96.5	124.7	104.3	115.9	125.3	97.0	129.2
1977 I	124.0	98.3	125.5	105.9	117.1	126.2	98.8	127.7
1977 II	127.8	99.8	126.7	107.3	119.1	128.1	100.9	126.9
1977 III	129.6	100.4	127.7	108.0	120.0	129.2	101.5	127.3
1977 IV	130.5	101.6	128.5	109.1	119.7	128.5	101.6	126.5
1978 I	129.8	102.7	129.5	110.2	117.8	126.4	100.2	126.2
1978 II	133.1	104.1	130.7	111.5	119.4	127.9	101.9	125.6
1978 III	135.6	104.4	131.8	112.0	121.0	129.9	102.9	126.2
1978 IV	138.2	105.9	132.7	113.4	121.9	130.5	104.2	125.3
1979 I	139.5	107.4	134.0	114.9	121.5	129.9	104.1	124.8
1979 II	139.1	106.4	135.6	114.5	121.5	130.8	102.6	127.4
1979 III	139.2	105.6	136.8	114.2	121.9	131.9	101.7	129.6
1979 IV	138.7	105.7	138.1	114.7	121.0	131.2	100.5	130.6
1980 I	138.4	105.9	139.4	115.1	120.2	130.7	99.3	131.6

TABLE VII. PRIVATE BUSINESS ECONOMY NAD MAJOR SECTORS

5. Nonfarm, Nonmanufacturing Industry

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1948 I	47.0	79.9	60.3	73.6	63.9	58.9	78.1	75.4
1948 II	47.8	80.1	60.8	74.0	64.6	59.6	78.5	75.9
1948 III	47.4	81.0	61.3	74.7	63.4	58.4	77.2	75.7
1948 IV	48.1	80.7	61.9	74.7	64.3	59.5	77.6	76.7
1949 I	47.5	80.5	62.2	74.6	63.6	59.0	76.4	77.2
1949 II	47.5	80.0	62.6	74.4	63.9	59.4	76.0	78.2
1949 III	47.8	79.0	63.0	73.8	64.7	60.5	75.8	79.8
1949 IV	47.2	78.9	63.4	73.9	63.9	59.9	74.5	80.3
1950 I	49.5	78.4	64.1	73.8	67.1	63.1	77.3	81.7
1950 II	50.7	79.7	64.6	74.8	67.8	63.6	78.6	81.0
1950 III	51.9	81.1	65.1	76.0	68.4	64.0	79.7	80.3
1950 IV	52.6	81.0	65.8	76.1	69.1	64.9	79.9	81.2
1951 I	52.4	82.2	66.2	77.0	68.1	63.8	79.2	80.5
1951 II	52.7	82.9	66.7	77.7	67.9	63.6	79.0	80.5
1951 III	54.4	82.3	67.3	77.4	70.3	66.1	80.9	81.7
1951 IV	54.8	82.6	67.8	77.8	70.5	66.4	80.9	82.0
1952 I	55.0	83.0	68.1	78.2	70.4	66.3	80.8	82.1
1952 II	55.5	82.7	68.5	78.1	71.1	67.1	81.0	82.8
1952 III	55.2	82.9	68.8	78.3	70.4	66.5	80.2	82.9
1952 IV	55.9	84.2	69.1	79.3	70.4	66.4	80.8	82.1
1953 I	56.9	84.5	69.3	79.6	71.5	67.4	82.1	82.0
1953 II	57.5	84.3	69.6	79.6	72.3	68.2	82.6	82.6
1953 III	57.1	83.8	70.0	79.3	72.1	68.2	81.7	83.5
1953 IV	57.1	83.7	70.3	79.4	71.9	68.2	81.1	84.0
1954 I	57.3	83.6	70.6	79.4	72.2	68.5	81.1	84.5
1954 II	57.1	83.4	71.0	79.4	71.9	68.4	80.4	85.1
1954 III	58.2	83.5	71.4	79.5	73.1	69.7	81.5	85.5
1954 IV	59.4	84.8	71.7	80.5	73.8	70.1	82.8	84.6
1955 I	60.9	85.5	72.2	81.2	75.0	71.2	84.3	84.4
1955 II	61.8	85.8	72.6	81.5	75.8	72.0	85.1	84.6
1955 III	62.9	86.9	73.1	82.5	76.3	72.4	86.0	84.1
1955 IV	63.6	88.0	73.8	83.4	76.2	72.2	86.2	83.8
1956 I	64.2	88.8	74.3	84.1	76.3	72.3	86.4	83.7
1956 II	65.4	89.4	74.9	84.7	77.2	73.1	87.3	83.7
1956 III	65.6	89.4	75.4	84.9	77.3	73.4	87.0	84.3
1956 IV	65.8	89.4	75.9	85.0	77.3	73.5	86.6	84.9

TABLE VII. PRIVATE BUSINESS ECONOMY NAD MAJOR SECTORS

5. Nonfarm, Nonmanufacturing Industry

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1966 I	96.4	99.5	94.7	98.0	98.4	96.9	101.9	95.1
1966 II	96.5	99.9	95.6	98.5	97.9	96.6	100.9	95.7
1966 III	97.3	100.3	96.4	99.1	98.2	97.0	101.0	96.1
1966 IV	97.7	99.9	97.3	99.2	98.5	97.8	100.4	97.5
1967 I	98.2	100.0	97.7	99.4	98.8	98.2	100.4	97.8
1967 II	99.7	100.0	98.4	99.6	100.1	99.7	101.3	98.4
1967 III	100.9	100.5	99.2	100.2	100.8	100.4	101.7	98.8
1967 IV	101.2	100.9	100.0	100.7	100.6	100.3	101.3	99.1
1968 I	102.8	101.1	100.7	101.0	101.7	101.7	102.1	99.6
1968 II	104.6	102.1	101.5	102.0	102.6	102.4	103.0	99.4
1968 III	106.8	103.1	102.4	102.9	103.8	103.6	104.3	99.3
1968 IV	106.8	103.8	103.2	103.7	103.0	102.9	103.5	99.4
1969 I	107.9	105.4	104.2	105.0	102.8	102.4	103.6	98.9
1969 II	109.3	106.6	105.2	106.2	103.0	102.6	103.9	98.7
1969 III	109.0	107.5	106.2	107.1	101.7	101.4	102.6	98.8
1969 IV	108.9	107.6	107.2	107.5	101.3	101.3	101.6	99.7
1970 I	109.8	108.1	107.8	108.1	101.6	101.6	101.8	99.8
1970 II	110.0	107.7	108.7	108.1	101.8	102.2	101.2	101.0
1970 III	111.8	107.5	109.6	108.3	103.3	104.1	102.0	102.0
1970 IV	110.7	108.3	110.4	109.1	101.5	102.2	100.3	101.9
1971 I	112.8	108.6	111.0	109.5	103.0	103.9	101.6	102.2
1971 II	113.3	109.1	111.9	110.2	102.9	103.9	101.3	102.6
1971 III	115.0	108.8	112.9	110.3	104.3	105.7	101.9	103.7
1971 IV	115.7	110.5	113.8	111.7	103.6	104.7	101.6	103.0
1972 I	118.3	111.5	114.4	112.6	105.1	106.2	103.4	102.7
1972 II	120.0	112.0	115.4	113.2	106.0	107.2	104.0	103.1
1972 III	121.9	112.3	116.5	113.8	107.1	108.5	104.6	103.7
1972 IV	123.3	113.0	117.5	114.7	107.5	109.1	104.9	104.0
1973 I	126.5	114.6	118.3	115.9	109.1	110.4	107.0	103.2
1973 II	126.1	115.9	119.3	117.2	107.7	108.8	105.7	102.9
1973 III	127.0	117.1	120.3	118.3	107.3	108.4	105.5	102.8
1973 IV	128.0	117.6	121.4	119.0	107.6	108.9	105.4	103.3
1974 I	129.7	117.9	121.9	119.3	108.7	110.0	106.5	103.4
1974 II	128.5	119.1	122.8	120.4	106.7	107.9	104.7	103.1
1974 III	126.3	118.9	123.5	120.6	104.7	106.2	102.2	103.9
1974 IV	124.6	117.9	124.3	120.2	103.7	105.7	100.2	105.4

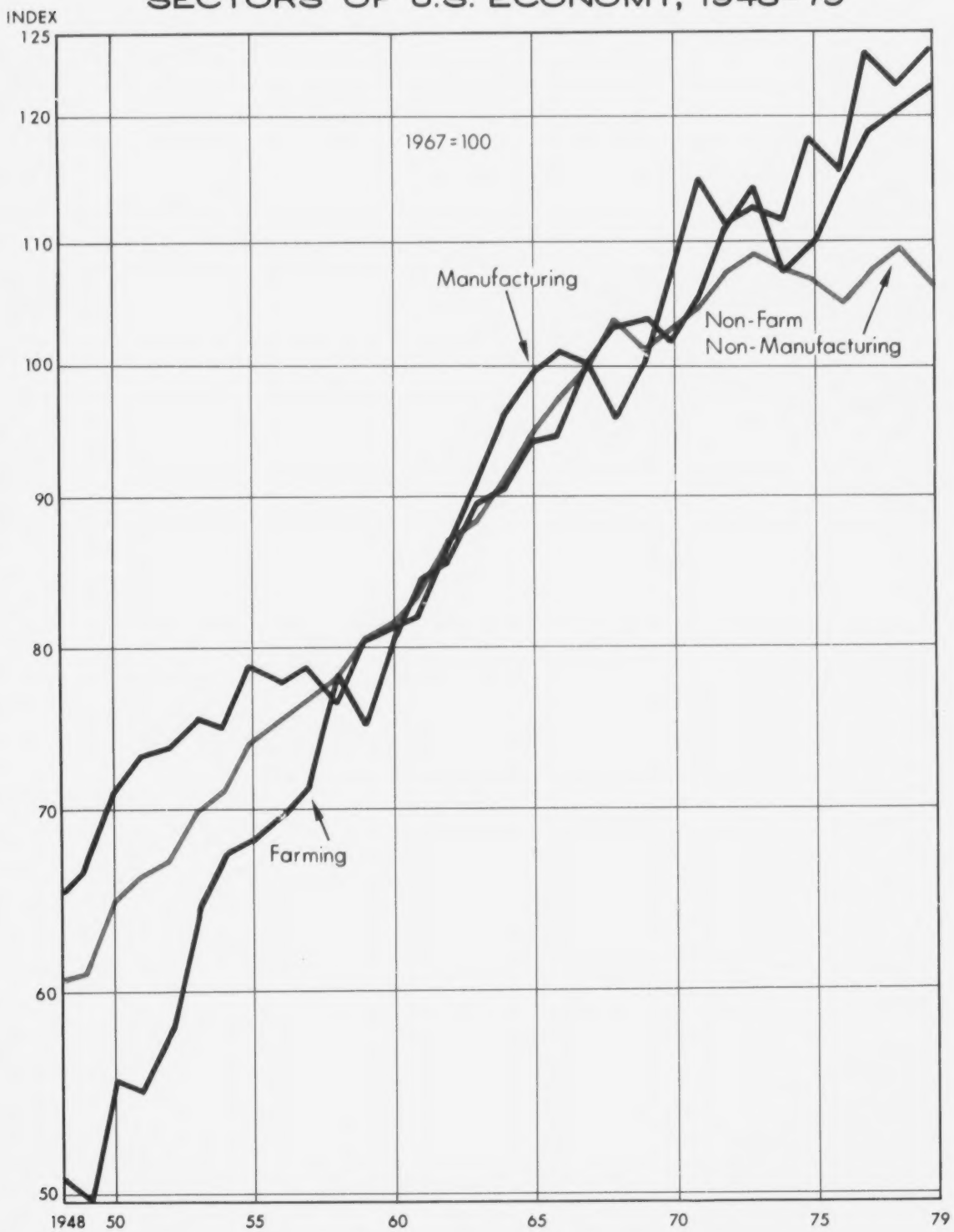
TABLE VII. PRIVATE BUSINESS ECONOMY NAD MAJOR SECTORS

5. Nonfarm, Nonmanufacturing Industry

Indexes of Real Output, Inputs, and Productivity Ratios
(1967=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Total Factor Input	Total Factor Productivity	Output per Unit Labor	Output per Unit Capital	Capital Labor Ratio
1975 I	124.8	115.9	124.2	118.9	105.0	107.7	100.4	107.2
1975 II	126.0	115.1	124.4	118.4	106.4	109.5	101.2	108.1
1975 III	127.6	116.1	124.9	119.2	107.0	109.9	102.1	107.7
1975 IV	128.1	117.6	125.4	120.4	106.4	108.9	102.2	106.6
1976 I	132.3	118.6	125.9	121.2	109.1	111.5	105.0	106.2
1976 II	133.3	118.8	126.6	121.6	109.6	112.2	105.3	106.5
1976 III	134.0	119.2	127.1	122.0	109.8	112.5	105.4	106.7
1976 IV	134.8	120.0	127.6	122.7	109.8	112.3	105.6	106.3
1977 I	139.0	121.5	128.2	123.9	112.2	114.4	108.4	105.5
1977 II	139.6	123.7	128.8	125.6	111.1	112.8	108.4	104.1
1977 III	142.0	124.9	129.5	126.6	112.1	113.6	109.6	103.7
1977 IV	142.7	126.0	130.1	127.5	111.9	113.3	109.7	103.2
1978 I	144.6	127.1	130.8	128.4	112.5	113.8	110.5	102.9
1978 II	148.7	130.5	131.5	130.9	113.6	114.0	113.0	100.8
1978 III	149.8	131.1	132.3	131.6	113.9	114.3	113.3	100.9
1978 IV	152.1	133.0	133.0	133.1	114.3	114.3	114.3	100.0
1979 I	152.1	134.1	133.8	134.1	113.4	113.4	113.7	99.8
1979 II	150.3	135.0	134.6	134.9	111.4	111.4	111.6	99.7
1979 III	150.9	136.6	135.3	136.3	110.7	110.4	111.5	99.0
1979 IV	152.6	137.4	136.0	136.9	111.4	111.1	112.2	99.0
1980 I	153.3	137.9	136.6	137.5	111.5	111.2	112.3	99.1

TOTAL FACTOR PRODUCTIVITY IN MAJOR SECTORS OF U.S. ECONOMY, 1948–79



SOURCE: American Productivity Center